,	90	180	270	360	450	540	630	720	810	900
	TTATTTTATT	AGCCAGTATC	AATTGCATGA	AGTTATTAAT	GGCTGACCGC	TGGGTGGACT	AAATGGCCCG	ATGGTGATGC	GGGAGTTTGT	CGGTGGGAGG
	AATAAAATAA	TCGGTCATAG	TTAACGTACT	TCAATAATTA	CCGACTGGCG	ACCCACCTGA	TTTACCGGGC	TACCACTACG	CCCTCAAACA	GCCACCTCC
	80 TAATTTTATT TY ATTAAAATAA AA	170 CGCATAGTTA A(GCGTATCAAT TX	260 CTTGACCGAC A GAACTGGCTG T	350 ATTATTGACT AGTTATTAAT TAATAACTGA TCAATAATTA	440 TGGCCCGCT GGCTGACCGC ACCGGCGGA CCGACTGGCG	530 TTGACGTCAA T AACTGCAGTT A	620 CAATGACGGT A GTTACTGCCA T	710 CGCTATTACC A GCGATAATGG T		890 TAGGCGTGTA C ATCCGCACAT G
	70 CCTTTTTTTT 7 GGAAAAAAA 7	160 GCTCTGATGC CGAGACTACG	250 CAAGGCAAGG GTTCCGTTCC (340 GTTGACATTG	430 TTACGGTAAA AATGCCATTT	520 GGACTTTCCA CCTGAAAGGT	610 CTATTGACGT GATAACTGCA	700 TATTAGTCAT ATAATCAGTA	790 TCCACCCCAT AGGTGGGGTA	880 AAATGGGCGG TTTACCCGCC
	60	150	240	330	420	510	600	690	780	870
	GCCAGAGTAA	AGTACAATCT	TAAGCTACAA	AGATATACGC	GTTACATAAC	ACGCCAATAG	AGTACGCCCC	TACATCTACG	TTTCCAAGTC	CCATTGACGC
	CGGTCTCATT	TCATGTTAGA	ATTCGATGTT	TCTATATGCG	CAATGTATTG	TGCGGTTATC	TCATGCGGGG	ATGTAGATGC	AAAGGTTCAG	GGTAACTGCG
	50	140	230	320	410	500	590	680	770	860
	GCTTCGAATA	GTCGACTCTC	GAGCAAAATT	TCTACGGGCC	GGAGTTCCGC	TCCCATAGTA	TCATATGCCA	TACTTGGCAG	CTCACGGGGA	CAACTCCGCC
	CGAAGCTTAT	CAGCTGAGAG	CTCGTTTTAA	ACATGCCCGG	CCTCAAGGCG	AGGGTATCAT	AGTATACGGT	ATGAACCGTC	GAGTGCCCCT	GTTGAGGCGG
	40	130	220	310	400	490	580	670	760	850
	AGGCGCGCCG	ATCCCCTATG	AGTAGTGCGC	TGCTTCGCGA	GCCCATATAT	TGACGTATGT	ATCAAGTGTA	GGGACTYTYCC	AGCGGTTTGA	AATGTCGTAA
	TCCGCGCGCC	TAGGGGATAC	TCATCACGCG	ACGAAGCGCT	CGGGTATATA	ACTGCATACA	TAGTTCACAT	CCCTGAAAGG	TCGCCAAACT	TTACAGCATT
	30	120	210	300	390	480	570	660	750	840
	AGGTGACCTG	CGATCTCCCG	GAGGTCGCTG	CGTTTTGCGC	TTAGTTCATA	ACGTCAATAA	TYGGCAGTAC	ATGACCTTAT	GGCGTGGAT	GACTTTCCAA
	TCCACTGGAC	GCTAGAGGGC	CTCCAGCGAC	GCAAAACGCG	AATCAAGTAT	TGCAGTTATT	AACCGTCATG	TACTGGAATA	CCCGCACCTA	CTGAAAGGTT
	10 GACGGATCGG GAGATCTGCT CTGCCTAGCC CTCTAGACGA	110 AGTTTGGCGC TCAAACCGCG	190 200 TGCTCCCTGC TTGTGTTG ACGAGGACG AACACACACA	290 AGAATCTGCT TAGGGTTAGG TCTTAGACGA ATCCCAATCC	310 AGTAATCAAT TACGGGGTCA TCATTAGTTA ATGCCCCAGT	470 CCGCCCATTG GGCGGGTAAC	550 550 ATTTACGGTA AACTGCCCAC TAAATGCCAT TTGACGGGTG	650 TGCCCAGTAC ACGGGTCATG		820 TTTGGCACCA AAATCAACGG AAACCGTGGT TTTAGTTGCC
	10	100	190	280	370	460	550	640	730	820
	GACGGATCGG	TYTGAGATGG	TGCTCCCTGC	AGAATCTGCT	AGTAATCAAT	CCAACGACCC	ATTTACGGTA	CCTGGCATTA	GGTTTTGGCA	TTTGGCACCA
	CTGCCTAGCC	AAACTCTACC	ACGAGGGACG	TCTTAGACGA	TCATTAGTTA	GGTTGCTGGG	TAAATGCCAT	GGACCGTAAT	CCAAAACCGT	AAACCGTGGT
	,				FIG	URE 14A	A 10\			

FIGURE 14A (SEQ ID NO. 10)

990	1080	1170	1260	1350	1440	1530	1620	1710	1800
GAGACCCAAG	GCTTGCTAGC	TCTGGGGGAG	GTTCGCCAGA	CGATTCACCA	GCAAGAGGCC	GTCTTCCCCC	ACGGTGTCGT	GTGGTCACCG	GTTGGTGAGA
CTCTGGGTTC	CGAACGATCG	AGACCCCCTC	CAAGCGGTCT	GCTAAGTGGT	CGTTCTCCGG	CAGAAGGGGG	TGCCACAGCA	CACCAGTGGC	CAACCACTCT
980	1070	1160	1250	1340	1430	1520	1610	1700	1790
TCACTATAGG	TCTTGCGGCC	TCTGGTGGAG	CATGTATTGG	TGTAAAGGGT	GTATTACTGT	GGGCCCATCG	CGAACCGGTG	CCTCAGCAGC	GGACAAGAAA
AGTGATATCC	AGAACGCCGG	AGACCACCTC	GTACATAACC	ACATTTCCCA	CATAATGACA	CCCGGGTAGC	GCTTGGCCAC	GGAGTCGTCG	CCTGTTCTTT
970 TTAATACGAC AATTATGCTG	1060 CGATTGGAAT GCTAACCTTA	1150 GTGAAGTGAA CACTTCACTT	1240 GTGACTATTA CACTGATAAT	1330 ATCCAGACAC TAGGTCTGTG	1420 ACACAGCCAT TGTGTCGGTA	1510 CTAGCACCAA GATCGTGGTT	1600 ACTACTTCCC TGATGAAGGG	1690 GACTCTACTC CTGAGATGAG	1780 ACACCAAGGT TGTGGTTCCA
960	1050	1140	1230	1320	1410	1500	1590	1680	1770
CTTATCGAAA	ACCGGTCAAT	GGTGTCCAGT	TTCACTTTCA	ATAACCGACT	AAGTCTGAGG	GTCTCTGTAG	CTGGTCAAGG	CAGTCCTCAG	AAGCCCAGCA
GAATAGCTTT	TGGCCAGTTA	CCACAGGTCA	AAGTGAAAGT	TATTGGCTGA	TTCAGACTCC	CAGAGACATC	GACCAGTTCC	GTCAGGAGTC	TTCGGGTCGT
950 TGCTTACTGG ACGAATGACC	1040 TCTCTAGATA AGAGATCTAT	1130 TGTTTTAAAA ACAAAATTTT	1210 1220 TCTCCTGTGT AACCTCTGGA AGAGGACACA TTGGAGACCT	AGGTGGTGAT TCCACCACTA	1400 GAGCCGTCTG CTCGGCAGAC	1490 TCTGGTCACG AGACCAGTGC	1580 CCTGGGCTGC GGACCCGACG	1670 GGCTGTCCTA CCGACAGGAT	1760 CGTGAATCAC GCACTTAGTG
940	1030	1120	1210	1300	1390	1480	1570	1660	1750
GAGAACCCAC	AGGTCTCGAG	TCCTTGTCCT	TCTCCTGTGT	ACATTAGTCA	ACCTGCAAAT	GCCAAGGGAC	GCACAGCGGC	ACACCTTCCC	ACATCTGCAA
CTCTTGGGTG	TCCAGAGCTC	AGGAACAGGA	AGAGGACACA	TGTAATCAGT	TGGACGTTTA	CGGTTCCCTG	CGTGTCGCCG	TGTGGAAGGG	TGTAGACGTT
930	1020	1110	1200	1290	1380	1470	1560	1650	1740
TGGCTAACTA	ATATCTCCTT	GCTTGGTCCT	TCCCTGAAAG	TGGGTCGCAT	AACACCCTGT	GCTTACTGGG	ACCTCTGGGG	AGCGGCGTGC	ACCCAGACCT
ACCGATTGAT	TATAGAGGAA	CGAACCAGGA	AGGGACTTTC	ACCCAGCGTA	TTGTGGGACA	CGAATGACCC	TGGAGACCCC	TCGCCGCACG	TGGGTCTGGA
920	1000 1010	1090 1100	1190	1280	1370	1450	1550	1530 1640	1730
CAGAGCTCTC	CTTGGTACCA ATTTAAATTG	CACCATGGAG TTGTGGTTAA	GCCTGGAGGG	GAGGCTGGAG	CAATGCCAAG	TGGACGACGG GGCCTGGTTT	CTCCAAGAGC	GGAACTCAGG CGCCCTGACC	TGCCCTCCAG CAGCTTGGGC
GTCTCGAGAG	GAACCATGGT TAAATTTAAC	GTGGTACCTC AACACCAATT	CGGACCTCCC	CTCCGACCTC	GTTACGGTTC	ACCTGCTGCC CCGGACCAAA	GAGGTTCTCG	CCTTGAGTCC GCGGACTGG	ACGGGAGGTC GTCGAACCCG
910	1000	1090	1180	1270	1360	1450	1540	1530	1720
TCTATATAAG	CTTGGTACCA	CACCATGGAG	GCTTAGTGCA	CTCCAGAGAA	TCTCCAGAGA	TGGACGACGG	TGGCACCCTC	GGAACTCAGG	TCCCTCCAG CAGCTTGGGC
AGATATATTC	GAACCATGGT	GTGGTACCTC	CGAATCACGT	GAGGTCTCTT	AGAGGTCTCT	ACCTGCTGCC	ACCGTGGGAG	CCTTGAGTCC	ACGGGAGGTC GTCGAACCCG

FIGURE 14B (SEQ ID NO. 10)

1890	1980	2070	2160	2250	2340	2430	2520	2610	2700
AGTCCAGGGC	TTTTCCCCAG	GAGCCATATC	CCAGATTCCA	CCAGGCCTCG	GCCACATGGA	CACAGGTGTA	ACATCGCCGT	TCTACAGCAA	ACACGCAGAA
TCAGGTCCCG	AAAAGGGGTC	CTCGGTATAG	GGTCTAAGGT	GGTCCGGAGC	CGGTGTACCT	GTGTCCACAT	TGTAGCGGCA	AGATGTCGTT	TGTGCGTCTT
1880	1970	2060	2150	2240	2330	2420	2510	2600	2690
ATGCAGCCC	TCTTCTGGCT	GACCTGCCAA	TTCTCTCCTC	GTAAGCCAGC	CATGTCCGGA	CCCCGAGAAC	TATCCCAGCG	TCCTTCTTCC	CACAACCACT
TACGTCGGGG	AGAAGACCGA	CTGGACGGTT	AAGAGAGGAG	CATTCGGTCG	GTACAGGCCT	GGGGCTCTTG	ATAGGGTCGC	AGGAAGAAGG	GTGTTGGTGA
1870	1960	2050	2140	2230	2320	2410	2490 2500	2590	2680
CATCCCGCT	AGGGAGAGGG	GCTGGGCTCA	CTCGGACACC	CCGTGCCCAG	TGGGTACCAA	TACAGGGCAG	CCTGCCTGGT CAAAGGCTTC	CTCCGACGCC	TGAGGCTCTG
GTAGGCCCGA	TCCCTCTCCC	CGACCCGAGT	GAGCCTGTGG	GGCACGGGTC	ACCCATGGTT	ATGTCCCGTC	GGACGGACCA GTTTCCGAAG	GAGGCTGCCG	ACTCCGAGAC
1860	1950	2040	2130	2220	2310-	2400	2490	2580	2670
TGCCTGGACG	ACTCATGCTC	AGGGGCAGGT	ACTCCCTCAG	CACATGCCCA	ACACACCACG	CCTCTGTCCC	CC/GCCTGGT	CCGTGCTGGA	CCGTGATGCA
ACGGACCTGC	TGAGTACGAG	TCCCCGTCCA	TGAGGGAGTC	GTGTACGGGT	TGTGTGGTGC	GGAGACAGGG	GGACGGACCA	GGCACGACCT	GGCACTACGT
1850	1940	2030	2120	2210	2300	2390	2480	2570	2660
TCAGCGCTCC	TGCCCGCCC	CTGCACACAA	CAAACTCTCC	ACAAAACTCA	GCATCCAGGG	GCTGTACCAA	GTCAGCCTGA	ACCACGCCTC	TTCTCATGCT
AGTCGCGAGG	ACGGCGGGG	GACGTGTGTT	GTTTGAGAGG	TGTTTTGAGT	CGTAGGTCCC	CGACATGGTT	CAGTCGGACT	TGGTGCGGAG	AAGAGTACGA
1840	1930	2020	2110	2200	2290	2380	2470	2560	2650
GAAGCCAGGC	CGGAGGCCTC	AACCCAGGCC	CCCCAAAGGC	AAATCTTGTG	AGAGTAGCCT	GAGAGTGACC	CAAGAACCAG	CAACTACAAG	GGGGAACGTC
CITCGGTCCG	GCCTCCGGAG	TTGGGTCCGG	GGGGTTTCCG	TTTAGAACAC	TCTCATCGGA	CTCTCACTGG	GTTCTTGGTC	GTTGATGITIC	CCCCTTGCAG
1830	1920	2010	2100	2190	2280	2370	2460	2550	2640
GTGTCTGCTG	CCTCTTCACC	AGGTGCCCCT	CCTAAGCCCA	TGCAGAGCCC	CAGGTGCCCT	CCTCTGCCCT	ATGAGCTGAC	AGCCGGAGAA	GGTGGCAGCA
CACAGACGAC	GGAGAAGTGG	TCCACGGGGA	GGATTCGGGT	ACGTCTCGGG	GTCCACGGGA	GGAGACGGGA	TACTCGACTG	TCGGCCTCTT	CCACCGTCGT
1810 1820	1900 1910	1990 2000	2090	2170 2180	2260	2360	2450	2540	2630
GGCCAGCACA GGGAGGGAGG	AGCAAGGCAG GCCCGTCTG	GCTCTGGGCA GGCACAGGCT	CTGCCCCTGA	GTAACTCCCA ATCTTCTCTC	CCCTCCAGCT CAAGGCGGGA	CTCGGCCCAC	CCATCCCGGG	AGCAATGGGC	GACAAGAGCA
CGGGTCGTGT CCCTCCCTCC	TCGTTCCGTC CGGGCAGAC	CGAGACCCGT CCGTGTCCGA	GACGGGGACT	CATTGAGGGT TAGAAGAGAG	GGGAGGTCGA GTTCCGCCCT	GAGCCGGGTG	GGTAGGGCCC	TCGTTACCCG	CTGTTCTCGT
1810	1900	1990	2080	2170	2260	2350	2440	2530 2540	2620
GGCCAGCACA	AGCAAGGCAG	GCTCTGGGCA	CGGGAGGACC	GTAACTCCCA	CCCTCCAGCT	CAGAGGCCGG	CACCCTGCCC	GGAGTGGGAG AGCAATGGGC	GCTCACCGTG
CCGGTCGTGT	TCGTTCCGTC	CGAGACCCGT	GCCCTCCTGG	CATTGAGGGT	GGGAGGTCGA	GTCTCCGGCC	GTGGGACGGG	CCTCACCCTC TCGTTACCCG	CGAGTGGCAC
				FIGU (SEC		. 10)			

2790	2880	2970	3060	3150	3240	3330	3420	3510	3600
TGCTTGGCAC	ATGGTTCTTT	TGTGCAGGTG	AGCAGCACCT	TTCTGTGAGC	CTACCCCCAC	CCTGTGGAGG	CACCACACAC	GAACACTCCT	TCAGACAAAC
ACGAACCGTG	TACCAAGAAA	ACACGTCCAC	TCGTCGTGGA	AAGACACTCG	GATGGGGGTG	GGACACCTCC	GTGGTGTGTG	CTTGTGAGGA	AGTCTGTTTG
2780	2870	2960	3050	3140	3230	3320	3410	3500	3590
CGCACGAGGA	CGAGACTGTG	TGGCCCAGGC	CCCTCCCTCC	GACTGTCCTG	CCTCACCCAT	ACTCTCGGGC	GCCACACGGC	TCGCACACGT	GCTGACCTGC
GCGTGCTCCT	GCTCTGACAC	ACCGGGTCCG	GGGAGGGAGG	CTGACAGGAC	GGAGTGGGTA	TGAGAGCCCG	CGGTGTGCCG	AGCGTGTGCA	CGACTGGACG
2770	2860	2950	3040	3130	3220	3310	3400	3490	3580
CTCTCGCGGT	TGGGCCCCTG	GTCCCCACAC	GCCAGCGTGG	CTCTGTAGGA	ACAGGCCCTC	GGGGACATGC	AGGTTGGCCG	AGCAAGGTCC	TTCTCCACAT
GAGAGCGCCA	ACCCGGGGAC	CAGGGGTGTG	CGGTCGCACC	GAGACATCCT	TGTCCGGGAG	CCCCTGTACG	TCCAACCGGC	TCGTTCCAGG	AAGAGGTGTA
2760	2850	2940	3030	3120	3210	3300	3390	3480	3570
GCTCCCCGGG	AGCGCTGCCC	GGGTCCCACT	TGGGGGATTT	CAGCCCCTGC	GTGCGTAGGG	AACCGACTCC	CCCCGCACTG	CCCAGACCAG	TCTCGGCAGC
CGAGGGGCCC	TCGCGACGGG	CCCAGGGTGA	ACCCCCTAAA	GTCGGGGACG	CACGCATCCC	TTGGCTGAGG	GGGGCGTGAC	GGGTCTGGTC	AGAGCCGTCG
2750	2840	2930	3020	3110	3200	3290	3380	3470	3560
GCAAGCCCCC	TAAAGCACCC	GAGGCAGAGC	CTCGGCAGGG	GACAGACACA	CCTAGTCCAT	ATGGGGACAC	GTTCAACAAA	CTGCACAGCA	CCCACGAGCC
CGTTCGGGGG	ATTTCGTGGG	CTCCGTCTCG	GAGCCGTCCC	CTGTCTGTGT	GGATCAGGTA	TACCCCTGTG	CAAGTTGTTT	GACGTGTCGT	GGGTGCTCGG
2740	2830	2920	3010	3100	3190	3280	3370	3460	3550
GCGACGGCCG	AGCATGGAAA	TGGCATGAGG	AGGGGCTGCC	AGCCCCTGGG	CGGGGGCATG	TCGCACCCGC	GCCCAGACCC	CCCGGGCGAA	CACCTCAAGG
CGCTGCCGGC	TCGTACCTTT	ACCGTACTCC	TCCCCGACGG	TCGGGGACCC	GCCCCGTAC	AGCGTGGGCG	CGGGTCTGGG	GGGCCCGCTT	GTGGAGTTCC
2730	2820	2910	3000	3090	3180	3270	3360	3450	3540
GTAAATGAGT	CCGGGCGCCC	GAGGCCTGAG	GGGCTCAGCC	AAGCCCTAGG	CATGCCCACT	CTGCCCAGCC	CACACACTCA	CGGAGCCTCA	CCCCACGCGG
CATTTACTCA	GGCCCGCGGG	CTCCGGACTC	CCCGAGTCGG	TTCGGGATCC	GTACGGGTGA	GACGGGTCGG	GTGTGTGAGT	GCCTCGGAGT	GGGGTGCGCC
2720	2800 2810	2900	2990	3070 3080	3160	3260	3340 3350	3440	3530
CTGTCTCCGG	GTACCCCCTG TACATACTTC	GGCCGAGTCT	CCCTAGGGTG	GCCTGGGCT GGGCCACGGG	GCCCCTGTCC TCCCGACCTC	CCTGGCTGCC	GACTGGTGCA GATGCCCACA	GCCTCACACA	CCCCCACGAG
GACAGAGGCC	CATGGGGGAC ATGTATGAAG	CCGGCTCAGA	GGGATCCCAC	CGGGACCCGA CCCGGTGCCC	CGGGACAGG AGGGCTGGAG	GGACCGACGG	CTGACCACGT CTACGGGTGT	CGGAGTGTGT	GGGGGTGCTC
2710	2800	2890	2980	3070	3160	3250	3340	3430	3520
GAGCCTCTCC	GTACCCCTG	CCACGGGTCA	TGCCTGGGCC	GCCCTGGGCT	GCCCCTGTCC	GGCACTAACC	GACTGGTGCA	ACACGTGCAC	CGGACACAGG
CTCGGAGAGG	CATGGGGGAC	GGTGCCCAGT	ACGGACCCGG	CGGGACCCGA	CGGGGACAGG	CCGTGATTGG	CTGACCACGT	TGTGCACGTG	GCCTGTGTCC

FIGURE 14D (SEQ ID NO. 10)

3690	3780	3870	3960	4050	4140	4230	4320	4410	4500
TGGCCCACTT	CCCGTGCCTT	CATTCTATTC	ATGGCTTCTG	GTTACGCGCA	CCTCTCAAAA	CCCAGTTCCG	AAGTAGTGAG	TCCTAGCGTG	ATTGGCAAGA
ACCGGGTGAA	GGGCACGGAA	GTAAGATAAG	TACCGAAGAC	CAATGCGCGT	GGAGAGTTTT	GGGTCAAGGC	TTCATCACTC	AGGATCGCAC	TAACCGTTCT
3680	3770	3860	3950	4040	4130	4220	4310	4400	4490
TCCCTGGCCC	TTGCCCCTCC	GAGTAGGTGT	GGTGGGCTCT	GGGTGTGGTG	GTTCGCCGGG	CCTAACTCCG	GCTATTCCAG	TTGACGGCAA	AAATATGGGG
AGGGACCGGG	AACGGGGAGG	CTCATCCACA	CCACCCGAGA	CCCACACCAC	CAAGCGGCCC	GGATTGAGGC	CGATAAGGTC	AACTGCCGTT	TTTATACCCC
3670	3760	3850	3940	4030	4120	4210	4300	4390	4480
CCACGTCACG	CATCTGTTGT	CGCATTGTCT	CTGGGGATGC	TAAGCGCGGC	TTCTCGCCAC	CCATCCCGCC	CGGCCTCTGA	CGCGCCAAAC	CCGTGTCCCA
GGTGCAGTGC	GTAGACAACA	GCGTAACAGA	GACCCCTACG	ATTCGCGCCG	AAGAGCGGTG	GGTAGGGCGG	GCCGGAGACT	GCGCGGTTTG	GGCACAGGGT
3660	3750	3840	3930	4020	4110	4200	4290	4380	4470
GGATCACACA	AGTTGCCAGC	GAAATTGCAT	AGCAGGCATG	AGCGGCGCAT	TTCCCTTCCT	CTAACTCCGC	GAGGCCGCCT	GCTGCGATTT	TGCATCGTCG
CCTAGTGTGT	TCAACGGTCG	CTTTAACGTA	TCGTCCGTAC	TCGCCGCGTA	AAGGGAAGGA	GATTGAGGCG	CTCCGGCGGA	CGACGCTAAA	ACGTAGCAGC
3650	3740	3830	3920	4010	4100	4190	4280	4370	4460
CACACACAGG	TGTGCCTTCT	ATAAAATGAG	GGAAGACAAT	CGCGCCCTGT	TTTCGCTTTC	AGTCCCGCCC	TGCAGAGGCC	ACAGCTCAGG	ACCATTGAAC
GTGTGTGTCC	ACACGGAAGA	TATTTTACTC	CCTTCTGTTA	GCGCGGGACA	AAAGCGAAAG	TCAGGGCGCG	ACGTCTCCGG	TGTCGAGTCC	TGGTAACTTG
3640	3730	3820	3910	4000	4090	4180	4270	4360	4450
AGCCGCCACA	CAGCCTCGAC	TCCTTTCCTA	GGGAGGATTG	GGTATCCCCA	CGCCCGCTCC	CAGCAACCAT	TTTTTATTTA	AAAAGCTYGG	TCATGGTTCG
TCGGCGGTGT	GTCGGAGCTG	AGGAAAGGAT	CCCTCCTAAC	CCATAGGGGT	GCGGGCGAGG	GTCGTTGGTA	AAAAATAAAT	TYYYCGAACC	AGTACCAAGC
3630	3720	3810	3900	3990	4080	4170	4260	4350	4440
GTGCCCTGC	CAGGACGGAT	ACTCCCACTG	GACAGCAAGG	GGCTCTAGGG	AGCGCCCTAG	CTCAATTAGT	TGACTAATTT	GGCTTTTGCA	CCCGCTGCCA
CACGGGGACG	GTCCTGCCTA	TGAGGGTGAC	CTGTCGTTCC	CCGAGATCCC	TCGCGGGATC	GAGTTAATCA	ACTGATTAAA	CCGAAAACGT	GGGCGACGGT
3620 CCAGCCCTCC TCTCACAAGG GGTCGGGAGG AGAGTGTTCC	3700 3710 CCCAGTGCCG CCCTTCCCTG GGGTCACGGC GGGAAGGGAC	3790 3800 CCTTGACCCT GGAAGGTGCC GGAACTGGGA CCTTCCACGG	3880 3890 TGGGGGGTGG GGTGGGGCAG ACCCCCACC CCACCCGTC	3980 AACCAGCTGG TTGGTCGACC	4060 GCGTGACCGC TACACTTGCC CGCACTGGCG ATGTGAACGG	4150 4160 AAGGGAAAAA AAGCATGCAT ITCCCTTTTT TTCGTACGTA	4250 GCCCCATGGC CGGGGTACCG	4340 TGGAGGCCTA ACCTCCGGAT	4430 GGATTTTATC CCTAAAATAG
3610	3700	3790	3880	3970	4060	4150	4240	4330 4340	4430
CCAGCCCTCC	CCCAGTGCCG	CCTTGACCCT	TGGGGGGTGG	AGGCGGAAAG	GCGTGACCGC	AAGGGAAAAA	CCCATTCTCC	GAGGCTTTTT TGGAGGCCTA	AAGGCTGGTA GGATTTTATC
GGTCGGGAGG	GGGTCACGGC	GGAACTGGGA	ACCCCCCACC	TCCGCCTTTC	CGCACTGGCG	TTCCCTTTTT	GGGTAAGAGG	CTCCGAAAAA ACCTCCGGAT	TTCCGACCAT CCTAAAATAG

FIGURE 14E (SEQ ID NO. 10)

4590	4680	4770	4860	4950	5040	5130	5220	5310	5400
AAACAGAATC	AGTAGAGAAC	GCAAGTAAAG	ACAAGGATCA	CTCTCTGAGG	GCTCCCCTCC	TGACATAATT	TAATTGTTTG	CAGAAGAAAT	AGGACTTTCC
TTTGTCTTAG	TCATCTCTTG	CGTTCATTTC	TGTTCCTAGT	GAGAGACTCC	CGAGGGGAGG	ACTGTATTAA	ATTAACAAAC	GTCTTCTTTA	TCCTGAAAGG
4580	4670	4760	4850	4940	5030	5120	5210	5300	5390
AGTGGAAGGT	TATAGTTCTC	ACCGGAATTG	ACTCTTYGTG	CCCAGGCGTC	CAAGTTCTCT	TTCTGTGGTG	CTACTGATTC	CTGTTTTGCT	GAAGACCCCA
TCACCTTCCA	ATATCAAGAG	TGGCCTTAAC	TGAGAAACAC	GGGTCCGCAG	GTTCAAGAGA	AAGACACCAC	GATGACTAAG	GACAAAACGA	CTTCTGGGGT
4570	4660	4750	4840	4930	5020	5110	5200	5290	5380
CAACCTCTTC	ACAGAATTAA	TTATTGAACA	GCCACCTTAG	TCCCAGAATA	AAGATGCTTT	GGAACCTTAC	ATGTGTTAAA	TGAGGAAAAC	GAGAAAGGTA
GTTGGAGAAG	TGTCTTAATT	AATAACTTGT	CGGTGGAATC	AGGGTCTTAT	TTCTACGAAA	CCTTGGAATG	TACACAATTT	ACTCCTTTTG	CTCTTTCCAT
4560	4650	4740	4830	4920	5010	5100	5190	5280	5370
AGAATGACCA	CCTTTAAAGG	GCCTTAAGAC	AATCAACCAG	TATAAACTTC	GACTAACAGG	TCTTTGTGAA	TAAGTGTATA	ATGCCTTTAA	CAAAAAGAA
TCTTACTGGT	GGAAATTTCC	CGGAATTCTG	TTAGTTGGTC	ATATTTGAAG	CTGATTGTCC	AGAAACACTT	ATTCACATAT	TACGGAAATT	GIYFYFYFYT
4550	4640	4730	4820	4910	S000	5090	5180	5270	5360
GTACTTCCAA	GAAGAATCGA	TPTGGATGAT	GGAAGCCATG	TTTGGGGAAA	CGAGAAGAAA	GCTTTAGATC	ATAAAATTTT	CAGTGGTGGA	TCTACTCCTC
CATGAAGGTT	CTTCTTAGCT	AAACCTACTA	CCTTCGGTAC	AAACCCCTTT	GCTCTTCTTT	CGAAATCTAG	TATTTAAAA	GTCACCACCT	AGATGAGGAG
4540	4630	4720	4810	4900	4990	5080	5170	5260	5350
ACGAGTTCAA	CCATTCCTGA	TTGCCAAAAG	CTGTTTACCA	CAGAAATIGA	TTGAAGTCTA	ACTTTTGCTG	TAAGGTAAAT	TGAATGGGAG	CTCTCAACAT
TGCTCAAGTT	GGTAAGGACT	AACGGTTTTC	GACAAATGGT	GTCTTTAACT	AACTTCAGAT	TGAAAACGAC	ATTCCATTTA	ACTTACCCTC	GAGAGTTGTA
4530	4620	4710	4800	4890	4980	5070	5160	5250.	5340
CCGCTCAGGA	ACCTGGTTCT	GCTCATTTTC	GGAGGCAGTT	ACGTTTTTCC	AAGTATAAGT	AGACCATGGG	TTTAAAGCTC	ATGGAACTGA	CTACTGCTGA
GGCGAGTCCT	TGGACCAAGA	CGAGTAAAAG	CCTCCGTCAA	TGCAAAAAGG	TTCATATTCA	TCTGGTACCC	AAATTTCGAG	TACCTTGACT	GATGACGACT
4510 4520	4600 4610	4690 4700	4780 4790	4870 4880	4960 4970	5060	5140 5150	5240	5330
ACGGAGACCT ACCCTGGCCT	TGGTGATTAT GGGTAGGAAA	TCAAAGAACC ACCACGAGGA	TAGACATGGT TTGGATAGTC	TGCAGGAATT TGAAAGTGAC	TCCAGGAGGA AAAAGGCATC	CATTTTTATA	GGACAACTA CCTACAGAGA	ATTCCAACCT	GATGATGAGG
TGCCTCTGGA TGGGACCGGA	ACCACTAATA CCCATCCTTT	AGTTTCTTGG TGGTGCTCCT	ATCTGTACCA AACCTATCAG	ACGTCCTTAA ACTYTCACTG	AGGTCCTCCT TTTTCCGTAG	GTAAAAATAT	CCTGTTTGAT GGATGTCTCT	TAAGGTTGGA	CTACTACTCC
4510	4600	4690	4780	4870	4960	5050	5140	5230	5320
ACGGAGACCT	TGGTGATTAT	TCAAAGAACC	TAGACATGGT	TGCAGGAATT	TCCAGGAGGA	TAAAGCTATG	GGACAAACTA	TGTATTTTAG	GCCATCTAGT
TGCCTCTGGA	ACCACTAATA	AGTTTCTTGG	ATCTGTACCA	ACGTCCTTAA	AGGTCCTCCT	ATTTCGATAC	CCTGTTTGAT	ACATAAAATC	CGGTAGATCA

FIGURE 14F (SEQ ID NO. 10)

5490	5580	5670	5760	5850	5940	6030	6120	6210	6300
AAAAAGCTGC	TTTTTCTTAC	TTAATAAGGA	CTCCCACACC	AGCAATAGCA	GTCTGGATCG	TACAAATAAA	TCTTATCATG	ACAATTCCAC	TCACTGCCCG
TTTTTCGACG	AAAAGAATG	AATTATTCCT	GAGGGTGTGG	TCGTTATCGT	CAGACCTAGC	ATGTTTATTT	AGAATAGTAC	TGTTAAGGTG	AGTGACGGGC
5480	5570	5660	5750	5840	5930	6020	6110	6200	6280 6290
ACCACAAAGG	AACATACTGT	TGTAAAGGGG	TTTAAAAAAC	TTACAAATAA	ATCTTATCAT	TTATAATGGT	CATCAATGTA	TTATCCGCTC	TCACATTAAT TGCGTTGCGC
TGGTGTTTCC	TTGTATGACA	ACATTTCCCC	AAATTTTTTG	AATGTTTATT	TAGAATAGTA	AATATTACCA	GTAGTTACAT	AATAGGCGAG	AGTGTAATTA ACGCAACGCG
5470	5560	5650	5740	5830	5920	6010	6100	6190	6280
TGCTATTTAC	TTATAATCAT	CTTTTTAATT	TTTTACTTGC	CTTATAATGG	TCATCAATGT	TTATTGCAGC	TGTCCAAACT	TGTGAAATTG	TCACATTAAT
ACGATAAATG	AATATTAGTA	GAAAAATTAA	AAAATGAACG	GAATATTACC	AGTAGTTACA	AATAACGTCG	ACAGGTTTGA	ACACTTTAAC	AGTGTAATTA
5460	5550	5640	5730	5820	5910	6000	6090	6180	6270
TYGCTYGCTY	GGCATAACAG	GTACCTTTAG	TITIGTAGAGG	TTTATTGCAG	TTGTCCAAAC	CCCAACTIGI	AGTTGTGGTT	CTGTTTCCTG	GTGAGCTAAC
AACGAACGAA	CCGTATTGTC	CATGGAAATC	AAACATCTCC	AAATAACGTC	AACAGGTTTG	GGGTIGAACA	TCAACACCAA	GACAAAGGAC	CACTCGATTG
5450	5540	5630	5720	5810	5900	5990	6080	6170	6260
AATAGAACTC	TTTATAAGTA	CAAAAATTGT	CCATACCACA	TGTTAACTTG	TAGTTGTGGT	CTTCGCCCAC	ACTGCATTCT	ATGGTCATAG	TGCCTAATGA
TTATCTTGAG	AAATATTCAT	GTTTTTAACA	GGTATGGTGT	ACAATTGAAC	ATCAACACCA	GAAGCGGGTG	TGACGTAAGA	TACCAGTATC	ACGGATTACT
5440	5530	5620	5710	5800	5890	5980	6070	6160	6250
TGTGTTTAGT	TTCTGTAACC	TAACTATGCT	TCATAATCAG	CAATTGTTGT	CACTGCATTC	TGCTGGAGTT	CATTITITIC	TGGCGTAATC	AAGCCTGGGG
ACACAAATCA	AAGACATTGG	ATTGATACGA	AGTATTAGTC	GTTAACAACA	GTGACGTAAG	ACGACCTCAA	GTAAAAAAG	ACCGCATTAG	TTCGGACCCC
5430	5520	5610	5700	5790	5880	5970	6060	6150	6240
TGAGTCATGC	TGGAAAATA	CTGCTATTAA	TGACTAGAGA	AAAATGAATG	GCATTTTTTT	GGGGATCTCA	ACAAATAAAG	AGCTAGAGCT	ATAAAGTGTA
ACTCAGTACG	ACCTTTTTAT	GACGATAATT	ACTGATCTCT	TTTTACTTAC	CGTAAAAAA	CCCCTAGAGT	TGTTTATTTC	TCGATCTCGA	TATTTCACAT
5420	5510	S600	5690	5780	5870	S950	6050	6130 6130	6230
CTAAGTTTTT	AAGAAAATTA	CATAGAGIGI	TATAGTGCCT	CCTGAAACAT	CACAAATAAA	GCTGGATGAT CCTCCAGCGC	CACAAATTTC	TCTGTATACC GTCGACCTCT	AGCCGGAAGC
GATTCAAAAA	TTCTTTTAAT	GIAICICACA	ATATCACGGA	GGACTTTGTA	GTGTTTATTT	CGACCTACTA GGAGGTCGCG	GTGTTTAAAG	AGACATATGG CAGCTGGAGA.	TCGGCCTTCG
5410	5500	5590	5680	5770	5860	5950	6040	6130	6220
TTCAGAATTG	ACTGCTATAC	TCCACACAGG	ATATTTGATG	TCCCCCTGAA	TCACAAATTT	GCTGGATGAT	GCAATAGCAT	TCTGTATACC	ACAACATACG
AAGTCTTAAC	TGACGATATG	AGGTGTGTCC	TATAAACTAC	AGGGGGACTT	AGTGTTTAAA	CGACCTACTA	CGTTATCGTA	AGACATATGG	TGTTGTATGC

6390	6480	6570	6660	6750	6840	6930	7020	71110	7200
CGCTCTTCCG	TTATCCACAG	GCGTYTYTYCC	TACCAGGCGT	GGAAGCGTGG	CCCGTTCAGC	ACTGGTAACA	GTATTTGGTA	GGTGGTTTTT	CAGTGGAACG
GCGAGAAGGC	AATAGGTGTC	CGCAAAAAGG	ATGGTCCGCA	CCTTCGCACC	GGGCAAGTCG	TGACCATTGT	CATAAACCAT	CCACCAAAAA	GTCACCTTGC
6380	6470	6560	6650	6740	6830	6920	7010	7100	7190
GCGTATTGGG	GGTAATACGG	CGCGTTGCTG	ACTATAAAGA	TCTCCCTTCG	GCACGAACCC	GGCAGCAGCC	TAGAAGGACA	CGCTGGTAGC	GTCTGACGCT
CGCATAACCC	CCATTATGCC	GCGCAACGAC	TGATATTTCT	AGAGGGAAGC	CGTGCTTGGG	CCGTCGTCGG	ATCTTCCTGT	GCGACCATCG	CAGACTGCGA
6370	6460	6550	6640	6730	6820	. 6910	1000	7090	7180
GAGGCGGTTT	ACTCAAAGGC	GTAAAAAGGC	ACCCGACAGG	TGTCCGCCTT	TGGGCTGTGT	TATCGCCACT	TGGCCTAACT ACGCCTACAC	AACAAACCAC	TTTCTACGGG
CTCCGCCAAA	TGAGTTTCCG	CATTTTTCCG	TGGGCTGTCC	ACAGGCGGAA	ACCCGACACA	ATAGCGGTGA	ACCGGATTGA TGCCGATGTG	TTGTTTGGTG	AAAGATGCCC
6360 6370	6450	6540	6630	6720	6810	6900	6990	7080	7170
CGCGCGGGA GAGGCGGTTT	GTATCAGCTC	GCCAGGAACC	AGGTGGCGAA	ACCGGATACC	CGCTCCAAGC	AGACACGACT	TGGCCTAACT	TGATCCGGCA	CCTTTGATCT
GCGCCCCT CTCCGCCAAA	CATAGTCGAG	CGGTCCTTGG	TCCACCGCTT	TGGCCTATGG	GCGAGGTTCG	TCTGTGCTGA	ACCGGATTGA	ACTAGGCCGT	GGAAACTAGA
6350	6440	6530	6620	6710	6800	6890	6980	7070	7160
AATCGGCCAA	GCGGCGAGCG	CCAGCAAAAG	CTCAAGTCAG	CCTGCCGCTT	GTAGGTCGTT	CAACCCGGTA	CTTGAAGTGG	TGGTAGCTCT	TCAAGAAGAT
TYAGCCGGTT	CGCCGCTCGC	GGTCGTTTTC	GAGTTCAGTC	GGACGGCGAA	CATCCAGCAA	GTTGGGCCAT	GAACTTCACC	ACCATCGAGA	AGTTCTTCTA
6340	6430	6520	6610	6700	6790	6880	.6970	7060	7150
TGCATTAATG	TCGTTCGGCT	GAGCAAAAGG	AAAATCGACG	CTGTTCCGAC	TCAGTTCGGT	GTCTTGAGTC	CTACAGAGTT	GAAAAAGAGT	AAAAAGGATC
ACGTAATTAC	AGCAAGCCGA	CTCGTTTTCC	TYYTAGCTGC	GACAAGGCTG	AGTCAAGCCA	CAGAACTCAG	GATGTCTCAA	CTTTTTCTCA	TTTTTCCTAG
6330	6420	6510	6600	6690	6780	6870	6960	7050	7140
TCGTGCCAGC	CTGCGCTCGG	AAGAACATGT	GAGCATCACA	GTGCGCTCTC	TOTAGGTATC	GGTAACTATC	GTAGGCGGTG	GTTACCTTCG	ACCCCCAGAA
AGCACGGTCG	GACGCGAGCC	TTCTTGTACA	CTCGTAGTGT	CACGCGAGAG	ACATCCATAG	CCATTGATAG	CATCCGCCAC	CAATGGAAGC	TGCGCGTCTT
6320	6400 6410	6490 6500	6590 6590	6690 6670 FTCCCCCTGG AAGCTCCCTC	6760	6860	6950	7030 7040	7120
GGGAAACCTG	CTTCCTCGCT CACTGACTCG	AATCAGGGGA TAACGCAGGA	ATAGGCTCCG CCCCCTGAC		CGCTTTCTCA ATGCTCACGC	CGCCTTATCC	GGATTAGCAG AGCGAGGTAT	TCTGCGCTCT GCTGAAGCCA	TIGITIGCAA GCAGCAGAIT
CCCTTTGGAC	GAAGGAGCGA GTGACTGAGC	TTAGTCCCCT ATTGCGTCCT	TATCCGAGGC GGGGGGACTG		GCGAAAGAGT TACGAGTGCG	GCGGAATAGG	CCTAATCGTC TCGCTCCATA	AGACGCGAGA CGACTTCGGT	AACAAACGII CGICGICIAA
6310	6400	6490	6580	6670	6760	6850	6940	7030	7120
CTTTCCAGTC	CTTCCTCGCT	AATCAGGGGA	ATAGGCTCCG	TTCCCCCTGG	CGCTTTCTCA	CCGACCGCTG	GGATTAGCAG	TCTGCGCTCT	TTGTTTGCAA
GAAAGGTCAG	GAAGGAGCGA	TTAGTCCCCT	TATCCGAGGC	AAGGGGGACC	GCGAAAGAGT	GCCTGGCGAC	CCTAATCGTC	AGACGCGAGA	AACAAACGTT

FIGURE 14H (SEQ ID NO. 10)

7290	7380	7470	7560	7650	7740	7830	7920	8010	8100
TTTAAATCAA	TTTCGTTCAT	CCGCCAGACC	TCCGCCTCCA	ACAGGCATCG	TTGTGCAAAA	CTGCATAATT	CGGCGACCGA	TCTTCGGGGC	TTTACTTTCA
AAATTTAGTT	AAAGCAAGTA	GCCGCTCTGG	AGGCGGAGGT	TGTCCGTAGC	AACACGTTTT	GACGTATTAA	GCCGCTGGCT	AGAAGCCCCG	AAATGAAAGT
7280	7370	7460	7550	7640	7730	7820	7910	8010	8090
AAAATGAAGT	GATCTGTCTA	TGCAATGATA	TGCAACTTTA	TGCCATTGCT	ATCCCCCATG	TATGGCAGCA	ATAGTGTATG	TGGAAAACGT TCTTCGGGGC	TTCAGCATCT
TTTTACTTCA	CTAGACAGAT	ACGTTACTAT	ACGTTGAAAT	ACGGTAACGA	TAGGGGGTAC	ATACCGTCGT	TATCACATAC	ACCTTTTGCA AGAAGCCCCG	AAGTCGTAGA
7270	7360	7450	7540	7630	7720	7810	7900	7990	8080
TITTAAATTTA	CTATCTCAGC	GCCCCAGTGC	GAAGTGGTCC	GCAACGTTGT	GAGTTACATG	CACTCATGGT	CATTCTGAGA	TGCTCATCAT	CCAACTGATC
AAAATTTAAT	GATAGAGTCG	CGGGGTCACG	CTTCACCAGG	CGTTGCAACA	CTCAATGTAC	GTGAGTACCA	GTAAGACTCT	ACGAGTAGTA	GGTTGACTAG
7260 ACCTAGATCC TGGATCTAGG	7350 AGTGAGGCAC TCACTCCGTG	7440 TTACCATCTG AATGGTAGAC	7530 GCCGAGCGCA CGGCTCGCGT	7620 AATAGTTTGC TTATCAAACG	7710 CGATCAAGGC GCTAGTTCCG	GCAGTGTTAT CACTCATGGT CGTCACAATA GTGAGTACCA	7890 TCAACCAAGT AGTTGGTTCA	7980 ACTTTAAAAG TGAAATTTTC	8070 ACTCGTGCAC TGAGCACGTG
7250 AAGGATCTTC TTCCTAGAAG	7340 ATGCTTAATC TACGAATTAG	TAACTACGAT ACGGAGGGC TTACCATCTG ATTGATGCTA TGCCCTCCCG AATGGTAGAC	7520 AGCCGGAAGG TCGGCCTTCC	7610 TTCGCCAGTT AAGCGGTCAA	7700 CGGTTCCCAA GCCAAGGGTT	7790 TAAGTTGGCC ATTCAACCGG	7880 TGGTGAGTAC ACCACTCATG	ACATAGCAGA ACTTTAAAAG TGTATCGTCT TGAAATTTTC	8060 GATGTAACCC CTACATTGGG
7240	7330	7420	7510	7600	7690	7780	7870	7960	8050
GATTATCAAA	ACAGTTACCA	TAACTACGAT	TAAACCAGCC	GAGTÄAGTAG	CATTCAGCTC	TTGTCAGAAG	TTTCTGTGAC	ATACCGCGCC	GATCCAGTTC
CTAATAGTTT	TGTCAATGGT	ATTGATGCTA	ATTTGGTCGG	CTCATTCATC	GTAAGTCGAG	AACAGTCTTC	AAAGACACTG	TATGGCGCGG	CTAGGTCAAG
7230 TTGGTCATGA AACCAGTACT	7320 ACTTGGTCTG TGAACCAGAC	7410 GTCGTGTAGA CAGCACATCT	GGCTCCAGAT TTATCAGCAA CCGAGGTCTA AATAGTCGTT	7590 CGGGAAGCTA GCCCTTCGAT	7680 GGTATGGCTT CCATACCGAA	7770 CCTCCGATCG GGAGGCTAGC	7860 GTAAGATGCT CATTCTACGA		8040 CCGCTGTTGA GCCGACAACT
7230 7230 7230 AAAACTCACG TTAAGGGATT TTGGTCATGA TTTTGAGTGC AATTCCCTAA AACCAGTACT	7310 7320 ATATGAGTAA ACTTGGTCTG TATACTCATT TGAACCAGAG	CCATAGTTGC CTGACTCCCC GTCGTGTAGA GGTATCAACG GACTGAGGGG CAGCACCT	7480 7490 7500 CACGCTCACC GCCTCCAGAT TTATCAGCAA GTGCGAGTGG CCGAGGTCTA AATAGTCGTT	7580 TAATTGTTGC ATTAACAACG	7670 CTCGTCGTTT GAGCAGCAAA	AAGCGGTTAG CTCCTTCGGT CCTCCGATCG TTCGCCAATC GAGGAAGCCA GGAGGCTAGC	7850 CATGCCATCC GTACGGTAGG	GTTGCTCTTG CCCGGCGTCA ATACGGGATA CAACGAGAAC GGGCGGCAGT TATGCCCTAT	8030 GAAAACTCTC AAGGATCTTA CTTYTGAGAG TTCCTAGAAT
7210	7300	7390	7480	7570	7660	7750	7840	7930	8020
AAAACTCACG	TCTAAAGTAT	CCATAGTTGC	CACGCTCACC	TCCAGTCTAT	TGGTGTCACG	AAGCGGTTAG	CTCTTACTGT	GTTGCTCTTG	GAAAACTCTC
TYTYTGAGTGC	AGATTTCATA	GGTATCAACG	GTGCGAGTGG	AGGTCAGATA	ACCACAGTGC	TTCGCCAATC	GAGAATGACA	CAACGAGAAC	CTTTTGAGAG

FIGURE 14I (SEQ ID NO. 10)

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8190 CTCATACTCT GAGTATGAGA	8280 AAACAAATAG TYTGTTTATC	
AAAACAGGAA GGCAAAAAAG GGAATAAGGG CGACACGGAA ATGTTGAATA CTCATACTCT TTTTGTCCTT CCGTTTTTACG GCGTTTTTTC CCTTATTCCC GCTGTGCCTT TACAACTTAT GAGTATGAGA	AGCATTTATC AGGGTTATTG TCTCATGAGC GGATACATAT TTGAATGTAT TTAGAAAAAT AAACAAATAG TCGTAAATAG TCCCAATAAC AGAGTACTCG CCTATGTATA AACTTACATA AATCTTTTTA TTTGTTTATC	
8170 CGACACGGAA GCTGTGCCTT	8260 TTGAATGTAT AACTTACATA	
8160 GGAATAAGGG CCTTATTCCC	8250 GGATACATAT CCTATGTATA	
8150 CGCAAAAAG GCGTTTTTTC	8240 TCTCATGAGC AGAGTACTCG	8330 C G
8140 GGCAAAATGC CCGTTTTACG	8230 AGGGTTATTG TCCCAATAAC	CGAAAAGTGC CACCTGACGT C
8130 AAAACAGGAA TYTYGYCCYY	8220 AGCATTTATC TCGTAAATAG	8310 CGAAAAGTGC GCTTTTCACG
8110 8120 CCAGCGTTTC TGGGTGAGCA SGTCGCAAAG ACCCACTCGT	8210 CCTTTTTCA ATATTATTGA AGGAAAAAGT TATAATAACT	8290 8300 3GGTTCCGCG CACATTTCCC CCCAAGGCGC GTGTAAAGGG
8110 CCAGCGTTTC GGTCGCAAAG	8200 TCCTTTTTCA AGGAAAAAGT	8290 GGGTTCCGCG CCCAAGGCGC



FIGURE 18A (SEQ ID NO. 22)

1	GGTACCAATT	TAAATTGATA	TCTCCTTAGG	TCTCGAGTCT	CTAGATAACC
51	GGTCAATCGA	TTGGAATTCT	TGCGGCCGCT	TGCTAGCCAC	CATGGAGTTG
101	TGGTTAAGCT	TGGTCTTCCT	TGTCCTTGTT	TTAAAAGGTG	TCCAGTGTGA
151	AGTGCAACTG	GTGGAGTCTG	GGGGAGGCTT	AGTGCAGCCT	GGAGGGTCCC
201	TGCGACTTTC	CTGTGCTGCA	TCTGGATTCC	CGTTCAGTGA	CTATTACATG
251	TATTGGGTTC	GCCAGGCTCC	AGGCAAGGGA	CTGGAGTGGG	TCTCATACAT
301	TAGTCAAGAT	GGTGATATAA	CCGACTATGC	AGACTCCGTA	AAGGGTCGAT
351	TCACCATCTC	CAGAGACAAT	GCAAAGAACA	GCCTGTACCT	GCAAATGAAC
401	AGCCTGAGGG	ACGAGGACAC	AGCCGTGTAT	TACTGTGCAA	GAGGCCTGGC
451	GGACGGGGCC	TGGTTTGCTT	ACTGGGGCCA	AGGGACTCTG	GTCACĢGTCT
501	CTTCCGCTAG	CACCAAGGGC	CCATCGGTCT	TCCCCCTGGC	ACCCTCCTCC
551	AAGAGCACCT	CTGGGGGCAC	AGCGGCCCTG	GGCTGCCTGG	TCAAGGACTA
601	CTTCCCCGAA	CCGGTGACGG	TGTCGTGGAA	ĊTCAGGCGCC	CTGACCAGCG
651	GCGTGCACAC	CTTCCCGGCT	GTCCTACAGT	CCTCAGGACT	CTACTCCCTC
701	AGCAGCGTGG	TCACCGTGCC	CTCCAGCAGC	TTGGGCACCC	AGACCTACAT
751	CTGCAACGTG	AATCACAAGC	CCAGCAACAC	CAAGGTGGAC	AAGAAAGTTG
801	GTGAGAGGCC	AGCACAGGGA	GGGAGGGTGT	CTGCTGGAAG	CCAGGCTCAG
851	CGCTCCTGCC	TGGACGCATC	CCGGCTATGC	AGCCCCAGTC	CAGGGCAGCA
901	AGGCAGGCCC	CGTCTGCCTC	TTCACCCGGA	GGCCTCTGCC	CGCCCCACTC
951	ATGCTCAGGG	AGAGGGTCTT	CTGGCTTTTT	CCCCAGGCTC	TGGGCAGGCA
1001	CAGGCTAGGT	GCCCCTAACC	CAGGCCCTGC	ACACAAAGGG	GCAGGTGCTG
1051	GGCTCAGACC	TGCCAAGAGC	CATATCCGGG	AGGACCCTGC.	CCCTGACCTA
1101	AGCCCACCCC	AAAGGCCAAA	CTCTCCACTC	CCTCAGCTCG	GACACCTTCT
1151	CTCCTCCCAG	ATTCCAGTAA	CTCCCAATCT	TCTCTCTGCA	GAGCCCAAAT
1201	CTTGTGACAA	AACTCACACA	TGCCCACCGT	GCCCAGGTAA	GCCAGCCCAG
1251	GCCTCGCCCT	CCAGCTCAAG	GCGGGACAGG	TGCCCTAGAG	TAGCCTGCAT
1301	CCAGGGACAG	GCCCCAGCCG	GGTGCTGACA	CGTCCACCTC	CATCTCTTCC

1351	TCAGCACCTG	235 AACTO <u>CTG</u> GG	337 GGGACCGTCA	GTCTTCCTCT	TCCCCCAAA
1401	ACCCAAGGAC	ACCCTCATGA	TCTCCCGGAC	CCCTGAGGTC	ACATGCGTGG
1451	TGGTGGACGT	GAGCCACGAA	GACCCTGAGG	TCAAGTTCAA	CTGGTACGTG
1501	GACGGCGTGG	AGGTGCATAA	TGCCAAGACA	AAGCCGCGGG	AGGAGCAGTA
1551	CAACAGCACG	TACCGTGTGG		CACCGTCCTG	CACCAGGACT
1601		CAAGGAGTAC	AAGTGCAAGG	TCTCCAACAA	AGCCCTCCCA
1651	GCCCCCATCG	AGAAAACCAT	CTCCAAAGCC	AAAGGTGGGA	CCCGTGGGGT
1701	GCGAGGGCCA	CATGGACAGA	GGCCGGCTCG	GCCCACCCTC	TGCCCTGAGA
1751	GTGACCGCTG	TACCAACCTC	TGTCCCTACA	GGGCAGCCCC	GAGAACCACA
1801	GGTGTACACC	CTGCCCCCAT	CCCGGGATGA	GCTGACCAAG	AACCAGGTCA
1851	GCCTGACCTG	CCTGGTCAAA	GGCTTCTATC	CCAGCGACAT	CGCCGTGGAG
1901	TGGGAGAGCA	ATGGGCAGCC	GGAGAACAAC	TACAAGACCA	CGCCTCCCGT
1951	GCTGGACTCC	GACGGCTCCT	TCTTCCTCTA	CAGCAAGCTC	ACCGTGGACA
2001	AGAGCAGGTG	GCAGCAGGGG	AACGTCTTCT	CATGCTCCGT	GATGCATGAG
2051	GCTCTGCACA	ACCACTACAC	GCAGAAGAGC	CTCTCCCTGT	CTCCGGGTAA
2101	ATGAGTGCGA	CGGCCGGCAA	GCCCCCGCTC	CCCGGGCTCT	CGCGGTCGCA
2151	CGAGGATGCT	TGGCACGTAC	CCCCTGTACA	TACTTCCCGG	GCGCCCAGCA
2201	TGGAAATAAA	GCACCCAGCG	CTGCCCTGGG	CCCCTGCGAG	ACTGTGATGG
2251	TTCTTTCCAC	GGGTCAGGCC	GAGTCTGAGG	CCTGAGTGGC	ATGAGGGAGG
2301	CAGAGCGGGT	CCCACTGTCC	CCACACTGGC	CCAGGCTGTG	CAGGTGTGCC
2351	TGGGCCCCCT	AGGGTGGGGC	TCAGCCAGGG	GCTGCCCTCG	GCAGGGTGGG
2401	GGATTTGCCA	GCGTGGCCCT	CCCTCCAGCA	GCACCTGCCC	TGGGCTGGGC
2451	CACGGGAAGC	CCTAGGAGCC	CCTGGGGACA	GACACACAGC	CCCTGCCTCT
2501	GTAGGAGACT	GTCCTGTTCT	GTGAGCGCCC	CTGTCCTCCC	GACCTCCATG
2551	CCCACTCGGG	GGCATGCCTA	GTCCATGTGC	GTAGGGACAG	GCCCTCCCTC
2601	ACCCATCTAC	CCCCACGGCA	CTAACCCCTG	GCTGCCCTGC	CCAGCCTCGC
2651	ACCCGCATGG	GGACACAACC	GACTCCGGGG	ACATGCACTC	TCGGGCCCTG
2701	TGGAGGGACT	GGTGCAGATG	CCCACACACA	CACTCAGCCC	AGACCCGTTC
2751	AACAAACCCC	GCACTGAGGT	TGGCCGGCCA	CACGGCCACC	ACACACACAC
2801	GTGCACGCCT	CACACACGGA	GCCTCACCCG	GGCGAACTGC	ACAGCACCCA

2851	GACCAGAGCA	AGGTCCTCGC	ACACGTGAAC	ACTCCTCGGA	CACAGGCCCC
2901	CACGAGCCCC	ACGCGGCACC	TCAAGGCCCA	CGAGCCTCTC	GGCAGCTTCT
2951	CCACATGCTG	ACCTGCTCAG	ACAAACCCAG	CCCTCCTCTC	ACAAGGGTGC
3001	CCCTGCAGCC	GCCACACACA	CACAGGGGAT	CACACACCAC	GTCACGTCCC
3051	TGGCCCTGGC	CCACTTCCCA	GTGCCGCCCT	TCCCTGCAGG	ACGGATCAGC
3101	CTCGACTGTG	CCTTCTAGTT	GCCAGCCATC	TGTTGTTTGC	CCCTCCCCG
3151	TGCCTTCCTT	GACCCTGGAA	GGTGCCACTC	CCACTGTCCT	TTCCTAATAA
3201	AATGAGGAAA	TTGCATCGCA	TTGTCTGAGT	AGGTGTCATT	CTATTCTGGG
3251	GGGTGGGGTG	GGGCAGGACA	GCAAGGGGGA	GGATTGGGAA	GACAATAGCA
3301	GGCATGCTGG	GGATGCGGTG	GGCTCTATGG	CTTCTGAGGC	GGAAAGAACC
3351	AGCTGGGGCT	CTAGGGGGTA	TCCCCACGCG	CCCTGTAGCG	GCGCATTAAG
3401	CGCGGCGGGT	GTGGTGGTTA	CGCGCAGCGT	GACCGCTACA	CTTGCCAGCG
3451	CCCTAGCGCC	CGCTCCTTTC	GCTTTCTTCC	CTTCCTTTCT	CGCCACGTTC
3501	GCCGGGCCTC	TCAAAAAAGG	GAAAAAAAGC	ATGCATCTCA	ATTAGTCAGC
3551	AACCATAGTC	CCGCCCTAA	CTCCGCCCAT	CCCGCCCCTA	ACTCCGCCCA
3601	GTTCCGCCCA	TTCTCCGCCC	CATGGCTGAC	TAATTTTTTT	TATTTATGCA
3651	GAGGCCGAGG	CCGCCTCGGC	CTCTGAGCTA	TTCCAGAAGT	AGTGAGGAGG
3701	CTTTTTTGGA	GGCCTAGGCT	TTTGCAAAAA	GCTTGGACAG	CTCAGGGCTG
3751	CGATTTCGCG	CCAAACTTGA	CGGCAATCCT	AGCGTGAAGG	CTGGTAGGAT
3801	TTTATCCCCG	CTGCCATCAT	GGTTCGACCA	TTGAACTGCA	TCGTCGCCGT
3851	GTCCCAAAAT	ATGGGGATTG	GCAAGAACGG	AGACCTACCC	TGGCCTCCGC
3901	TCAGGAACGA	GTTCAAGTAC	TTCCAAAGAA	TGACCACAAC	CTCTTCAGTG
3951	GAAGGTAAAC	AGAATCTGGT	GATTATGGGT	AGGAAAACCT	GGTTCTCCAT
4001	TCCTGAGAAG	AATCGACCTT	TAAAGGACAG	AATTAATATA	GTTCTCAGTA
4051	GAGAACTCAA	AGAACCACCA	CGAGGAGCTC	ATTTTCTTGC	CAAAAGTTTG
4101	GATGATGCCT	TAAGACTTAT	TGAACAACCG	GAATTGGCAA	GTAAAGTAGA
4151	CATGGTTTGG	ATAGTCGGAG	GCAGTTCTGT	TTACCAGGAA	GCCATGAATC
4201	AACCAGGCCA	CCTTAGACTC	TTTGTGACAA	GGATCATGCA	GGAATTTGAA
4251	AGTGACACGT	TTTTCCCAGA	AATTGATTTG	GGGAAATATA	AACTTCTCCC
4301	AGAATACCCA	GGCGTCCTCT	CTGAGGTCCA	GGAGGAAAA	GGCATCAAGT

4351	ATAAGTTTGA	AGTCTACGAG	AAGAAAGACT	AACAGGAAGA	TGCTTTCAAG
4401	TTCTCTGCTC	CCCTCCTAAA	GCTATGCATT	TTTATAAGAC	CATGGGACTT
4451	TTGCTGGCTT	TAGATCTCTT	TGTGAAGGAA	CCTTACTTCT	GTGGTGTGAC
4501	ATAATTGGAC	AAACTACCTA	CAGAGATTTA	AAGCTCTAAG	GTAAATATAA
4551	AATTTTTAAG	TGTATAATGT	GTTAAACTAC	TGATTCTAAT	TGTTTGTGTA
4601	TTTTAGATTC	CAACCTATGG	AACTGATGAA	TGGGAGCAGT	GGTGGAATGC
4651	CTTTAATGAG	GAAAACCTGT	TTTGCTCAGA	AGAAATGCCA	TCTAGTGATG
4701	ATGAGGCTAC	TGCTGACTCT	CAACATTCTA	CTCCTCCAAA	AAAGAAGAGA
4751	AAGGTAGAAG	ACCCCAAGGA	CTTTCCTTCA	GAATTGCTAA	GTTTTTTGAG
4801	TCATGCTGTG	TTTAGTAATA	GAACTCTTGC	TTGCTTTGCT	ATTTACACCA
4851	CAAAGGAAAA	AGCTGCACTG	CTATACAAGA	AAATTATGGA	AAAATATTCT
4901	GTAACCTTTA	TAAGTAGGCA	TAACAGTTAT	AATCATAACA	TACTGTTTTT
4951	TCTTACTCCA	CACAGGCATA	GAGTGTCTGC	TATTAATAAC	TATGCTCAAA
5001	AATTGTGTAC	CTTTAGCTTT	TTAATTTGTA	AAGGGGTTAA	TAAGGAATAT
5051	TTGATGTATA	GTGCCTTGAC	TAGAGATCAT	AATCAGCCAT	ACCACATTTG
5101	TAGAGGTTTT	ACTTGCTTTA	AAAAACCTCC	CACACCTCCC	CCTGAACCTG
5151	AAACATAAAA	TGAATGCAAT	TGTTGTTGTT	AACTTGTTTA	TTGCAGCTTA
5201	TAATGGTTAC	AAATAAAGCA	ATAGCATCAC	AAATTTCACA	AATAAAGCAT
5251	TTTTTTCACT	GCATTCTAGT	TGTGGTTTGT	CCAAACTCAT	CAATGTATCT
5301	TATCATGTCT	GGATCGGCTG	GATGATCCTC	CAGCGCGGGG	ATCTCATGCT
5351	GGAGTTCTTC	GCCCACCCCA	ACTTGTTTAT	TGCAGCTTAT	AATGGTTACA
5401	AATAAAGCAA	TAGCATCACA	AATTTCACAA	ATAAAGCATT	TTTTTCACTG
5451	CATTCTAGTT	GTGGTTTGTC	CAAACTCATC	AATGTATCTT	ATCATGTCTG
5501	TATACCGTCG	ACCTCTAGCT	AGAGCTTGGC	GTAATCATGG	TCATAGCTGT
5551	TTCCTGTGTG	AAATTGTTAT	CCGCTCACAA	TTCCACACAA	CATACGAGCC
5601	GGAAGCATAA	AGTGTAAAGC	CTGGGGTGCC	TAATGAGTGA	GCTAACTCAC
5651	ATTAATTGCG	TTGCGCTCAC	TGCCCGCTTT	CCAGTCGGGA	AACCTGTCGT
5701	GCCAGCTGCA	TTAATGAATC	GGCCAACGCG	CGGGGAGAGG	CGGTTTGCGT
5751	ATTGGGCGCT	CTTCCGCTTC	CTCGCTCACT	GACTCGCTGC	GCTCGGTCGT
5801	TCGGCTGCGG	CGAGCGGTAT	CAGCTCACTC	AAAGGCGGTA	ATACGGTTAT

5851	CCACAGAATC	AGGGGATAAC	GCAGGAAAGA	ACATGTGAGC	AAAAGGCCAG
5901	CAAAAGGCCA	GGAACCGTAA	AAAGGCCGCG	TTGCTGGCGT	TTTTCCATAG
5951	GCTCCGCCCC	CCTGACGAGC	ATCACAAAAA	TCGACGCTCA	AGTCAGAGGT
6001	GGCGAAACCC	GACAGGACTA	TAAAGATACC	AGGCGTTTCC	CCCTGGAAGC
6051	TCCCTCGTGC	GCTCTCCTGT	TCCGACCCTG	CCGCTTACCG	GATACCTGTC
6101	CGCCTTTCTC	CCTTCGGGAA	GCGTGGCGCT	TTCTCAATGC	TCACGCTGTA
6151	GGTATCTCAG	TTCGGTGTAG	GTCGTTCGCT	CCAAGCTGGG	CTGTGTGCAC
6201	GAACCCCCCG	TTCAGCCCGA	CCGCTGCGCC	TTATCCGGTA	ACTATCGTCT
6251	TGAGTCCAAC	CCGGTAAGAC	ACGACTTATC	GCCACTGGCA	GCAGCCACTG
6301	GTAACAGGAT	TAGCAGAGCG	AGGTATGTAG	GCGGTGCTAC	AGAGTTCTTG
6351	AAGTGGTGGC	CTAACTACGG	CTACACTAGA	AGGACAGTAT	TTGGTATCTG
6401	CGCTCTGCTG	AAGCCAGTTA	CCTTCGGAAA	AAGAGTTGGT	AGCTCTTGAT
6451	CCGGCAAACA	AACCACCGCT	GGTAGCGGTG	GTTTTTTTGT	TTGCAAGCAG
6501	CAGATTACGC	GCAGAAAAA	AGGATCTCAA	GAAGATCCTT	TGATCTTTTC
6551	TACGGGGTCT	GACGCTCAGT	GGAACGAAAA	CTCACGTTAA	GGGATTTTGG
6601	TCATGAGATT	ATCAAAAAGG	ATCTTCACCT	AGATCCTTTT	AAATTAAAA
6651	TGAAGTTTTA	AATCAATCTA	AAGTATATAT	GAGTAAACTT	GGTCTGACAG
6701	TTACCAATGC	TTAATCAGTG	AGGCACCTAT	CTCAGCGATC	TGTCTATTTC
6751	GTTCATCCAT	AGTTGCCTGA	CTCCCCGTCG	TGTAGATAAC	TACGATACGG
6801	GAGGGCTTAC	CATCTGGCCC	CAGTGCTGCA	ATGATACCGC	GAGACCCACG
6851	CTCACCGGCT	CCAGATTTAT	CAGCAATAAA	CCAGCCAGCC	GGAAGGCCG
6901	AGCGCAGAAG	TGGTCCTGCA	ACTTTATCCG	CCTCCATCCA	GTCTATTAAT
6951	TGTTGCCGGG	AAGCTAGAGT	AAGTAGTTCG	CCAGTTAATA	GTTTGCGCAA
7001	CGTTGTTGCC	ATTGCTACAG	GCATCGTGGT	GTCACGCTCG	TCGTTTGGTA
7051	TGGCTTCATT	CAGCTCCGGT	TCCCAACGAT	CAAGGCGAGT	TACATGATCC
7101	CCCATGTTGT	GCAAAAAAGC	GGTTAGCTCC	TTCGGTCCTC	CGATCGTTGT
7151	CAGAAGTAAG	TTGGCCGCAG	TGTTATCACT	CATGGTTATG	GCAGCACTGC
7201	ATAATTCTCT	TACTGTCATG	CCATCCGTAA	GATGCTTTTC	TGTGACTGGT
7251	GAGTACTCAA	CCAAGTCATT	CTGAGAATAG	TGTATGCGGC	GACCGAGTTG
7301	CTCTTGCCCG	GCGTCAATAC	GGGATAATAC	CGCGCCACAT	AGCAGAÀCTT

7351	TAAAAGTGCT	CATCATTGGA	AAACGTTCTT	CGGGGCGAAA	ACTCTCAAGG
7401	ATCTTACCGC	TGTTGAGATC	CAGTTCGATG	TAACCCACTC	GTGCACCCAA
7451	CTGATCTTCA	GCATCTTTTA	CTTTCACCAG	CGTTTCTGGG	TGAGCAAAAA
7501	CAGGAAGGCA	AAATGCCGCA	AAAAAGGGAA	TAAGGCCGAC	ACGGAAATGT
7551	TGAATACTCA	TACTCTTCCT	TTTTCAATAT	TATTGAAGCA	TTTATCAGGG
7601	TTATTGTCTC	ATGAGCGGAT	ACATATTTGA	ATGTATTTAG	AAAAATAAAC
7651	AAATAGGGGT	TCCGCGCACA	TTTCCCCGAA	AAGTGCCACC	TGACGTCGAC
7701	GGATCGGGAG	ATCTGCTAGG	TGACCTGAGG	CGCGCCGGCT	TCGAATAGCC
7751	AGAGTAACCT	TTTTTTTTAA	TTTTATTTTA	TTTTATTTTT	GAGATGGAGT
7801	TTGGCGCCGA	TCTCCCGATC	CCCTATGGTC	GACTCTCAGT	ACAATCTGCT
7851	CTGATGCCGC	ATAGTTAAGC	CAGTATCTGC	TCCCTGCTTG	TGTGTTGGAG
7901	GTCGCTGAGT	AGTGCGCGAG	CAAAATTTAA	GCTACAACAA	GGCAAGGCTT
7951	GACCGACAAT	TGCATGAAGA	ATCTGCTTAG	GGTTAGGCGT	TTTGCĢCTGC
8001	TTCGCGATGT	ACGGGCCAGA	TATACGCGTT	GACATTGATT	ATTGACTAGT
8051	TATTAATAGT	AATCAATTAC	GGGGTCATTA	GTTCATAGCC	CATATATGGA
8101	GTTCCGCGTT	ACATAACTTA	CGGTAAATGG	CCCGCCTGGC	TGACCGCCCA
8151	ACGACCCCCG	CCCATTGACG	TCAATAATGA	CGTATGTTCC	CATAGTAACG
8201	CCAATAGGGA	CTTTCCATTG	ACGTCAATGG	GTGGACTATT	TACGGTAAAC
8251	TGCCCACTTG	GCAGTACATC	AAGTGTATCA	TATGCCAAGT	ACGCCCCTA
8301	TTGACGTCAA	TGACGGTAAA	TGGCCCGCCT	GGCATTATGC	CCAGTACATG
8351	ACCTTATGGG	ACTTTCCTAC	TTGGCAGTAC	ATCTACGTAT	TAGTCATCGC
8401	TATTACCATG	GTGATGCGGT	TTTGGCAGTA	CATCAATGGG	CGTGGATAGC
8451	GGTTTGACTC	ACGGGGATTT	CCAAGTCTCC	ACCCCATTGA	CGTCAATGGG
8501	AGTTTGTTTT	GGCACCAAAA	TCAACGGGAC	TTTCCAAAAT	GTCGTAACAA
8551	CTCCGCCCCA	TTGACGCAAA	TGGGCGGTAG	GCGTGTACGG	TGGGAGGTCT
8601	ATATAAGCAG	AGCTCTCTGG	CTAACTAGAG	AACCCACTGC	TTACTGGCTT
8651	ATCGAAATTA	ATACGACTCA	CTATAGGGAG	ACCCAAGCTT	

60	120	180	240	300	360	420	480	540	600
GGTCAATCGA	CCTGGCACCC	GGACTACTTC	GCACACCTTC	CGFGCCCTCC	CAACACCAAG	TGGAAGCCAG	GCAGCAAGGC	TCAGGGAGAG	CTAACCCAGG
CCAGTTAGCT	GGACCGTGGG	CCTGATGAAG	CGTGTGGAAG	GCACGGGAGG	GT'IGTGGTTC	ACCTTCGGTC	CGTCGTTCCG	AGTCCCTCTC	GATTGGGTCC
50	110	170	230	290	350	410	470	530	590
CTAGATAACC	CGGTCTTCCC	GCCTGGTCAA	CCAGCGGCGT	GCGTGGTCAC	ACAAGCCCAG	GGGTGTCTGC	CCAGTCCAGG	CCACTCATGC	CTAGGTGCCC
GATCTATTGG	GCCAGAAGGG	CGGACCAGTT	GGTCGCCGCA	CGCACCAGTG	TGTTCGGGTC	CCCACAGACG	GGTCAGGTCC	GGTGAGTACG	GATCCACGGG
40 TCTCGAGTCT AGAGCTCAGA	AAGGGCCCAT TTCCCGGGTA	160 GCCCTGGGCT CGGGACCCGA	220 GGCGCCCTGA CCGCGGGACT	280 TCCCTCAGCA AGGGAGTCGT	340 AACGTGAATC TTGCACTTAG	400 CAGGGAGGGA GTCCCTCCCT	460 CTATGCAGCC GATACGTCGG	520 TCTGCCCGCC AGACGGGCGG	580 CAGGCACAGG GTCCGTGTCC
30	90	150	210	270	330	390	450	510	570
TCTCCTTAGG	TGCTAGCACC	GGGCACAGGG	GTGGAACTCA	AGGACTCTAC	CTACATCTGC	GAGGCCAGCA	CGCATCCCGG	CCCGGAGGCC	AGGCTCTGGG
AGAGGAATCC	ACGATCGTGG	CCCGTGTCGC	CACCTTGAGT	TCCTGAGATG	GATGTAGACG	CTYCCGGTCGT	GCGTAGGGCC	GGGCCTCCGG	TCCGAGACCC
20	90	140	200	260	320	380	440	500	560
TAAATTGATA	TGCGGCCGCT TGCTAGCACC	GCACCTCTGG	TGACGGTGTC	TYACAGTCCTC	GCACCCAGAC	AAGTTGGTGA	CCTGCCTGGA	TGCCTCTTCA	CTTTTTCCCC
ATTTAACTAT	ACGCCGGCGA ACGATCGTGG	CGTGGAGACC	ACTGCCACAG	ATGTCAGGAG	CGTGGGTCTG	TYTCAACCACT	GGACGGACCT	ACGGAGAAGT	GAAAAGGGG
10	70	130	190	250	310	370	430	490	550
GGTACCAATT	TYGGAATYCT	TCCTCCAAGA	CCCGAACCGG	CCGGCTGTCC	AGCAGCTTGG	GYGGACAAGA	GCTCAGCGCT	AGGCCCCGTC	GGTCTTCTGG
CCATGGTTAA	AACCTYAAGA	AGGAGGTTCT	GGGCTTGGCC	GGCCGACAGG	TCGTCGAACC	CACCYG1'TCT	CGAGTCGCGA	TCCGGGGCAG	CCAGAAGACC

660 TCCGGGAGGA AGGCCCTCCT	AGCTCGGACA TCGAGCCTGT	780 CCAAATCTTG GGTTTAGAAC	840 CGCCCTCCAG GCGGGAGGTC	900 CAGCCGGGTG GTCGGCCCAC	235 950237 960 qcrcscqcqq ccgrcagrcr qcacccccr gccagrcaga	1010 1020 CCGGACCCCT GAGGTCACAT GGCCTGGGGA CTCCAGTGTA	1080 TACGTGGACG ATGCACCTGC	AGCACG	318 1200 GAGTACAAGT CTCATGTTGA
650 AAGAGCCATA TTCTCGGTAT	CCACTCC	770 TCTGCAGAGC AGACGTCTCG	830 GCCCAGGCCT CGGGTCCGGA	890 GGACAGGCCC CCTGTCCGGG	235 950237 qcrcbcqqqa qcacccccrd		1070 GTTCAACTGG CAAGTTGACC	1130 GCAGTACAAC CGTCATGTTG	1190 GAATGGCAAG CTTPACCGTTC
640 CAGACCTGCC GTCTGGACGG	GCCAAACTCT CGG'ITTGAGA	760 CAATCTTCTC GTTAGAAGAG	820 AGGTAAGCCA TCCATTCGGT	880 CTGCATCCAG GACGTAGGTC	940 CACCTGAACT GTGGACTTGA	1000 TCATGATCTC AGTACTAGAG	CACGAAGACC CTGAGGTCAA GTGCTTCTGG GACTCCAGTT	1120 CGCGGGAGGA GCGCCCTCC'I	1180 AGGACTGGCT TCCTGACCGA
630 GTGCTGGGCT CAGACCTGCC CACGACCCGA GTCTGGACGG	CACCCCAAAG GTGGGGTTTC	750 CAGTAACTCC GTCATTGAGG	810 CACCGTGCCC GTGGCACGGG	870 CTAGAGTAGC GATCTCATCG	930 TCTTCCTCAG AGAAGGAGTC	990 AAGGACACCC TYCCTGTGGG	1050 CACGAAGACC GTGCTTCTGG	1110 AAGACAAAGC TYCTGTTTCG	1170 GTCCTGCACC CAGGACGTGG
620 AAAGGGGCAG TYTCCCCGTC	GACCTAAGCC CTGGATTCGG	740 TCCCAGATTC AGGGTCTAAG	800 CACACATGCC GTGTACGG	860 GACAGGTGCC CTGTCCACGG	920 CACCTCCATC GTGGAGGTAG	980 CCCAAAACCC GGGTTYTYGGG	1040 GGACGTGAGC CCTGCACTCG	1100 GCATAATGCC CGTA1TACGG	1160 CGTCCTCACC GCAGGAGTGG
610 CCCTGCACAC GGGACG'IGTG	CCCTGCCCCT	730 CCTTCTCTCC GGAAGAGAGG	790 TGACAAAACT ACTGT'I'TTGA	850 CTCAAGGCGG GAGTTCCGCC	910 CTGACACGTC GACTGTGCAG	970 TCCTCTTCCC AGGAGAAGGG	1030 GCGTGGTGGT CGCACCACCA	1090 GCGTGGAGGT CGCACCTCCA	1150 GTGTGGTCAG CACACCAGTC
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1320	1380	1440	1500	1560	1620	1680	1740	1800
ACCCTCTGCC	ACCACAGGTG	GACCTGCCTG	GCAGCCGGAG	CCTCTACAGC	CTCCGTGATG	GGGTAAATGA	GATGC'FTGGC	CCAGCGCTGC
'FGGGAGACGG	TGGTGTCCAC	CTGGACGGAC	CGTCGGCCTC	GGAGATGTCG	GAGGCACTAC	CCCATTTACT	CTACGAACCG	GGTCGCGACG
1310	1370	1430	1490	1550	1610	1670	1730	1790
GGCTCGGCCC	AGCCCCGAGA	AGGTCAGCCT	AGAGCAATGG	GCTCCTTCTT	TCTTCTCATG	CCCTGTCTCC	GTCGCACGAG	AATAAAGCAC
CCGAGCCGGG	TCGGGGCTCT	TCCAGTCGGA	TCTCGTTACC	CGAGGAAGAA	AGAAGAGTAC	GGGACAGAGG	CAGCGTGCTC	TTATTTCGTG
1300	1360	1420	1480	1540	1600	1660	1720	1780
GACAGAGGCC	CCTACAGGGC	ACCAAGAACC	GTGGAGTGGG	GACTCCGACG	CAGGGGAACG	AAGAGCCTCT	GGCTCTCGCG	CCAGCATGGA
CTGTCTCCGG	GGATG1°CCCG	TGGTTCTTGG	CACCTCACCC	CTGAGGCTGC	GTCCCCTTGC	TTCTCGGAGA	CCGAGAGCGC	GGTCGTACCT
1290	1350	1410	1470	1530	1590	1650	1710	1770
GGGCCACATG	AACCTCTGTC	GGATGAGCTG	CGACATCGCC	TCCCGTGCTG	CAGGTGGCAG	CTACACGCAG	CCGCTCCCCG	TCCCGGGCGC
CCCGGTGTAC	'ITGGAGACAG	CCTACTCGAC	GCTGTAGCGG	AGGGCACGAC	GTCCACCGTC	GATGTGCGTC	GGCGAGGGGC	AGGGCCCGCG
1280	1340	1400	1460	1520	1580	1640	1700	1760
TGGGGTGCGA	CCGCTGTACC	CCCCATCCCG	TCTATCCCAG	AGACCACGCC	TGGACAAGAG	TGCACAACCA	CGGCAAGCCC	TGTACATACT
ACCCCACGCT	GGCGACATGG	GGGGTAGGCC	AGATAGGGTC	TCTGGTGCGG	ACCTGTTCTC	ACGTGTTGGT	GCCGTTCGGG	ACATGTATGA
1270	1330	1390	1450	1510	1570	1630	1690	1750
GTGGGACCCG	CTGAGAGTGA	TACACCCTGC	GTCAAAGGCT	AACAACTACA	AAGCTCACCG	CATGAGGCTC	GTGCGACGGC	ACGTACCCCC
CACCCTGGGC	GACTCTCACT	ATGTGGGACG	CAGTTTCCGA	TTGTTGATGT	TTCGAGTGGC	GTACTCCGAG	CACGCTGCCG	1YCCATYGGGGG
	1280 1310 TGGGGTGCGA GGGCCACATG GACAGAGGCC GGCTCGGCCC ACCCTCC ACCCCACGCT CCGGTGTAC CTGTCTCCGG CCGAGCCGGG 'FGGGAGA	TGGGGTGCGA GGGCCACATG GACAGAGGCC GGCTCGGCCC ACCCTCTACCCCACGCT CCCGGTGTAC CTGTCTCCGG CCGAGCCGGG TGGGAGA ACCCTCTGTC CCTACAGGGC AGCCCCGAGA ACCACAGGGC AGCCCCGAGA ACCACAGGGC AACCTCTGTC CCTACAGGGC AGCCCCGAGA ACCACAGGGC AGCCCCGAGA ACCACAGGGC AGCCCCGAGA ACCACAGGGCAATGTCCCG TCGGGGCTCT TGGTGTC	TGGGTGCGA GGCCACATG GACAGAGGCC GGCTCGGCCC ACCCTCCACCACGCT CCCGGTGTAC CTGTCTCCGG CCGAGCCGGG TGGGAGACCCCACGCTTACACGCT CTGTCTCCGG CCGAGCCGGG TGGGAGACCCGGTACC AACCTCTGTC CCTACAGGGC AGCCCCGAGA ACCACACGGC TTGGAGACAG GGATGTCCCG TCGGGGCTCT TGGTGTCTCTCGG GGATGAGCTG ACCAAGAACC AGGTCAGCCT GACCTGGGGTAGGCT ACCAAGAACC AGGTCAGCCT GACCTGGGGGTAGGCCT CTACTCGAC TGGTTCTTGG TCCAGTCGGA CTGGACC	1280 1290 1310 1310 TGGGGTGCGA GGCCCACATG GACAGAGGC GGCTCGGCC ACCCTCT ACCCCACGCT CCGGTGTAC CTGTCTCCGG CCGAGCCGGG TGGGAGA 1340 1350 1360 1370 ACCACAGGGC AGCCCCGAGA ACCACAGGGC AGCCCCAGGGG AGCCCCAGGGG AGCCCCAGGGG AGCCCCAGGGG AGCCACAGGGG AGCCACAGGGG AGCCACAGGGG AGCCACAGGGG AGCCACAGGGG AGCCACAGGGG AGACCTCGGG AGACCTCGGG AGAGCAATGGG CTGGTTCTTGG TCCAGTTAGC CTGGAGCCC AGAGCAATGGG CTGCTCAACGGC CTCTCGTTACC CGTCGGG CTCTCGTTACC CGTCGGC CGTCGCC CGTCGCC CGTCGCC CGTCGCCCCCC CGTCGCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	TGGGTGCGA GGGCCACATG GACAGAGGC GGCTCGGCCC ACCCTCT ACCCTCT CCGGTGTAC CTGTCTCTGG CCGAGCCGGG TGGGAGJ 1340 1340 CCGCTGTACC AACCTCTGTC CCTACAGGC ACCCCGAGA ACCACAC GGCGACATGG GGATGTCCCG TCGGGGCTCT TGGTGTC CCCATCCGG GGATGTCCCG TCGGGGCTCT TGGTGTC ACCAAGAACC AGGTCAGCCT GACCTGGGCTAGGG CCTACTCGAC ACCAAGAACC AGGTCAGCCT GACCTGGCTAGGG CCTACTCGAC TGGTTCTTGG TCCAGTCGGA CTGGACCTAGGGCTAGGG CACCTCACCGG GGACGATGG GACTCCCACCGGC TCTATAGCG CACCTCACCC GTGGAGTGGG AGAGCAATGG GCACCTCACCGC TCTGGTTAGCGC CTGTAGCGG CACCTCACCG GCTCGTTACCCACC TCCCGTTACCCGC TCCGGGAATGG GCTCCTTACCCACCC TCCTGGTCGGC CTCGGTGCGC CTGGTGCCGC TCTGGTTACCCCC TCTGGTCGGC CTCTGGTCCCCCCCCCC	TGGGTGCG 1390 1310 1310 ACCCCACGG GGCCCACATG GACAGAGGC GGCTCGGCC ACCCCACGG CCGAGCCGCG CCGAGCCGCC 1340 1350 1360 1370 CCGCTGTACC AACCTCTGTC CCTACAGGGC AGCCCCGAGA ACCACACGGC GGCGACATGC CCTACAGGGC TGGTGTC TGGTGTC GGCGACATGG GCATCATTGG TCGGGCTTC TGGTGCC GCGGATAGGG CCTACTGGC TGGTGCCC TGGGGCTC GGGGTAGGG CCTACTGGC TGGTTCTTGG TCGGGCCT GGGGTAGGG CCTACTGGC TGGTTCTTGG TCGGGCCT AGACTCCGG CTGGAGTGGG AGAGCAATGG CGTCGGCC AGATAGGGC CTCTTACCCC TCTCGTTACC CGTCGTGCC AGACCACGC TCCCGTGCC TCTCGTTACC TCTCGTTACC AGACCACGC TCCCGTGCC TCTCGTTACT CTTCTACT AGACCACGC TCTCGTGCC TCTCGTTACT CTCTTACT TCGGTGCGC TCTCGTTCTT CTCTTACT TCGGTGCGC TCTCTTACT	TGGGTGCGA GGGCCACATG GACAGAGGC GGCTCGGCCC ACCCTCTCACCGCGCT CCGGTGTGTAC CTGTCTCCGG CCGAGCCGGG TGGGAGGC CCGAGCCGGG TGGGAGGC CCGCTGCGCCT CCGGTGTGTAC CTGTCTCCGG CCGAGCCGGG TGGGAGGC CCGCTGTACCCG TTGGAGCACG GGATGTCCCG TCGGGCCTCT TGGTCTCTCGG CCCCATCCGG GGATGTCCCG TCGGGCCTCT TGGTCTCCGG CCTACTCCGG CCTACTCGAC TCGGGCTCT TGGTCTCCGGCTACCCG GGATGACCTG TCCATCTCGG CCTACTCGAC TCGTTCTTGG TCCATCTCGG CCTACTCGAC TGGTTCTTGG TCCATCTCGG CCTCTTACCCG CGACATCGCG CTGGAGTTGGG AGAGCAATGG GCACTCGACG CTGGACTGGG CACCTCCACCC TCTCTTACCCCG CTGGACTGGG CACCTCCTCTCTTACCCGG TCCGTTGACGGG CACCTCCGTCGGG CACCTCCGTG AGACCACGC TCCCTTCTTACCTCGTG AGACCACGC TCCGTTGACGTG CTCCGTTGACGTG CTCCTTCTTCTTCTTCTTCTTCTTCTTTCTTCTTTTCTTCTTTT	TGGGGTGCGA GGGCCACATG GACAGAGGCC GGCTCGGCCC ACCCTC' ACCCCACGCT CCCGGTGTAC CTGTCTCCGG CCGAGCCGGG TGGGAGG 1340

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1860	1920	1980	2040	2100	2160	2220	2280	2340	2400
CTGAGGCCTG	GCTGTGCAGG	GGTGGGGGAT	GGAAGCCCTA	TGTTCTGTGA	GCGGTGGGCT	CACGCGCCCT	GCTACACTTG	ACGTTCGCCG	AGTGCTTTAC
GACTCCGGAC	CGACACGTCC	CCACCCCTA	CCTTCGGGAT	ACAAGACACT	CGCCACCCGA	GTGCGCGGGA	CGATGTGAAC	TGCAAGCGGC	TCACGAAATG
1850	1910	1970	2030	2090	2150	2210	2270	2330	2390
CAGGCCGAGT	ACTGGCCCAG	CCCTCGGCAG	CTGGGCCACG	GAGACTGTCC	TGCTGGGGAT	GGGGTATCCC	CAGCGTGACC	CTTTCTCGCC	GTTCCGATTT
GTCCGGCTCA	TGACCGGGTC	GGGAGCCGTC	GACCCGGTGC	CTCTGACAGG	ACGACCCCTA	CCCCATAGGG	GTCGCACTGG	GAAAGAGCGG	CAAGGCTAAA
1840	1900	1960	2020	2080	2140	2200	2260	2320	2380
TTCCACGGGT	CTGTCCCCAC	CCAGGGGCTG	CTGCCCTGGG	GCCTCTGTAG	CTCGGGGGCA	GGGGCTCTAG	TGGTTACGCG	TCTTCCCTTC	TCCCTTTAGG
AAGGTGCCCA	GACAGGGGTG	GGTCCCCGAC	GACGGGACCC	CGGAGACATC	GAGCCCCCGT	CCCCGAGATC	ACCAATGCGC	AGAAGGGAAG	AGGGAAATCC
1830	1890	1950	2010	2070	2130	2190	2250	2310 2320	2370
TGATGGTTCT	GCGGGTCCCA	TGGGGCTCAG	CCAGCAGCAC	CACAGCCCCT	TCCATGCCCA	AGAACCAGCT	GCGGGTGTGG	CCTTTCGCTT TCTTCCCTTC	AATCGGGGCA
ACTACCAAGA	CGCCCAGGGT	ACCCCGAGTC	GGTCGTCGTG	GTGTCGGGGA	AGGTACGGGT	TCTTGGTCGA	CGCCCACACC	GGAAAGCGAA AGAAGGGAAG	TTAGCCCCGT
1820	1870 1880	1940	2000	2060	2120	2180	2240	2300	2360 2370
TGCGAGAC'IG	AGTGGCATGA GGGAGGCAGA	CCCCCTAGGG	GGCCCTCCCT	GGGACAGACA	CCTCCCGACC	TGAGGCGGAA	ATTAAGCGCG	AGCGCCCGCT	TCAAGCTCTA AATCGGGGCA
ACGCTCTGAC	TCACCGTACT CCCTCCGTCT	GGGGGATCCC	CCGGGAGGGA	CCCTGTCTGT	GGAGGGCTGG	ACTCCGCCTT	TAATTCGCGC	T'CGCGGGCGA	AGTTCGAGAT TTAGCCCCGT
1810	1870	1930	1990	2050	2110	2170	2230	2290 2300	2350
CCTGGGCCCC	AGTGGCATGA	TG'IGCCTGGG	TTGCCAGCGT	GGAGCCCCTG	GCGCCCCTGT	C'FATGGC'I'TC	GTAGCGGCGC	CCAGCGCCCT AGCGCCCGCT	GCTTTCCCCG
GGACCCGGGG	TCACCGTACT	ACACGGACCC	AACGGTCGCA	CCTCGGGGAC	CGCGGGGACA	- GATACCGAAG	CATCGCCGCG	GGTCGCGGGA TCGCGGGCGA	CGAAAGGGGC

2410 2420 2430 2440 2450 2460 SGCACCTCGA CCCCAAAAAA CTTGATTAGG GTGATGGTTC ACGTAGTGG CCATCGCCCT CCCTGGACCT CCCTGAGTGG CACTACCACCT GGGTTTTTTT CACTACCACGT CACTACCACCT CCTGAGTGGC AAAGCGGGA AAACTAATAGT GACTCCACGT CTTTAATAGT CCTGAGTGGAA 2530 AAAACGGCC AACTCCACGTT CTTTAATAGT CCTGAGTAGA CTGAGTTTTA 1250 AACTCCACTT CACTACCACGTT CTTTAATATAGT CCTGAGTAGA CTGAGTAGAA 1250 AACTCCACTTTGG AAAACTAAATTTA AAAACTAAAATTA AAAACTAAAAATTA AAAACTAAAAATTA AAAACCCCATAAA 2550 ACGGATAACC AAAAAAATTA AAAACCCCAAAA TTGCACTAAA AAAACCCCCTAAAA AAAACCCCCTAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA										
2420 CCCCAAAAAA CTTGATTAGG GTGATGGTTC GGGGTTTTTT GAACTAATCC CACTACCAAG 2480 2480 2480 2480 2480 2480 2500 TTTTCGCCCT TTGACGTTGG ACCCTATCT AAAAGCGGGA AACTGCAACC TCAGGTGCAA 2560 AACAACACTC TTGACGTTGG ACCCTATTT TCGCCAA 2600 CCGGATAACC TTAAAAAAATG TTGACGTTAAAAAATG TTGACGTTAAG 2730 2740 AAGCATGCAT TTCAATTTTTTAC TTCGTACGT TTCAATTTTTTAC TTCGTACGT TTCAATTTTTAC TTCGTACGT TTCAATTTTTTAC TTCGTACGT TTCAATTTTTTAC TTCGTACGT TTCAATTTTTTAC TTCGTACGT TTTCGTACGT TTTCGTACGT TTTCGTACGT TTTTCGTACGT TTTTCGTACCT TTTTCGTACCT TTTTCGTACCT TTTTCGTACCT TTTTTCGTACCT TTTTCGTACCT TTTTTCGTACCT TTTTTCGTACT TTTTTTTTTT	2460 CCATCGCCCT GGTAGCGGGA	GGACTC	TAAGGG		2700 CAGGCAGGCA GTCCGTCCGT	CTAACTC	TGACTAA ACTGATT	AAGTAG' TTCATC	GCTGCGA CGACGCT	CCCGCTY
CCCCAAAAAA CTTGATTAGG GGGGTTTTTT GAACTAATCC 2480 2490 TTTTCGCCCT TTGACGTTGG AAAAGCGGGA AACTGCAACC 2540 2550 AACAACACTC AACCCTATCT TTGTTGTGAG TTAGGATAGA 2600 2610 GGCCTATTGG TTAAAAAATG CCGGATAACC AATTTTTTTAC 2600 2600 2610 AATGTGTGTG GTTAAAAAATG CCGGATAACC AATTTTTTAC 2720 2720 AAGCATGCAT GAGTTAATCA 2720 2730 AAGCATGCAT GAGTTAATCA 2720 2730 AAGCATGCAT GAGTTAATCA 2720 2730 AAGCATGGG GGGTCAAGGC GGATTGAGGC GGGTCAAGGC GGATTGAGGC GGGTCAAGGC CCTAACTCCG GGGTCAAGGC GGATTGAGGC GGGTCAAGGC TGCAGAGGC GGGTCAAGGC TGCAGAGGC GGGTCAAGGC ACTCCGGAT CCGAAAACGT ACCTCCGGAT CCGAAAACGT ACCTCCGGAT TCCTAGCGTG TTGACGGCAA TCCTAGCGTG TTGACGCCAT AGGATCGCAC	2450 ACGTAGTGGG TGCATCACCC	2510 CTTTTAATAGT GAAATTATCA	2570 TTTTGATTTA AAAACTAAAT		2690 CCAGGCTCCC GGTCCGAGGG	2750 AGTCCCGCCC TCAGGGCGGG	2810 GCCCCATGGC CGGGGTACCG	2870 GCTATTCCAG CGATAAGGTC		
CCCCAAAAAA GGGGTTTTTT 2480 2480 TTTTCGCCCT AAAAGCGGGA 2540 AACAACACTC TTGTTGTGAG 2600 GGCCTATTGG 2600 GGCCTATTGG 2600 AACAACACTC TTACACACGT TTCGTACTCC GGATTGAGGC AAGCATGAGGC TTCGTACTCCG GGATTGAGGC AAGCATGAGGC AAGCATCCGG TGCAGAGGCC ACTCCGGAT TGCAGAGGCC ACTCCGGAT CTTGACGCCTA 2900 TGCAGAGGCC ACTCCGGAT AACTCCCGGAT AACTCCCGGAT	2440 GTGATGGTTC CACTACCAAG	2500 AGTCCACGTT TCAGGTGCAA	2560 CGGTCTATTC GCCAGATAAG	2620 AGCTGATTTA TCGACTAAAT	2680 TGGAAAGTCC ACCTTTCAGG	2740 CAGCAACCAT GTCGTTGGTA	2800 CCCATTCTCC GGGTAAGAGG			
CCCCAAAAAA GGGGTTTTTT 2480 TTTTCGCCCT AAAAGCGGGA AACAACACTC TTGTTGTGGGC CCGATAACC 2600 GGCCTATTGG CCGATAACC TTACACACACG AATGTGTGTC TTACACACG AAGCATGAGC TTGCAGAGGCC ACGATTGAGGC ACGTTCGGGATACCG CCTAACTCCG GGATTGAGGCC ACGTCTCCGG TGCAGAGGCC ACGTCTCCGGATACCGG TGCAGAGGCCTA TGCAGAGGCCTA AACTCCGGAT	2430 CTTGATTAGG GAACTAATCC	2490 TTGACGTTGG AACTGCAACC	2550 AACCCTATCT T'TGGGATAGA	2610 TTAAAAAATG AATTTTTTAC	2670 AGTTAGGGTG TCAATCCCAC	2730 CTCAATTAGT GAGTTAATCA	2790 CCCAGTTCCG GGGTCAAGGC	2850 GAGGCCGCCT CTCCGGCGGA	2910 GGCTTTTGCA CCGAAAACGT	
	2420 CCCCAAAAA GGGGTTTTTT	2480 TTTTCGCCCT AAAAGCGGGA	2540 AACAACACTC TTGTTGTGAG		2660 AATGTGTGTC TTACACACAG	2720 AAGCATGCAT TTCGTACGTA	2780 CCTAACTCCG GGATTGAGGC	2840 TGCAGAGGCC ACGTCTCCGG	2900 TGGAGGCCTA ACCTCCGGAT	2960 TTGACGGCAA AACTGCCGTT
	2410 GGCACCTCGA CCGTGGAGCT	2470 GATAGACGGT CTATCTGCCA	2530 TCCAAAC'IGG AGGT'TTGACC	2590 TGGGGATTTC ACCCCTAAAG	2650 AATTCTGTGG TTAAGACACC	2710 GAAGTATGCA CTTCATACGT	2770 CCATCCCGCC GGTAGGGCGG	2830 TTTTTAT1TA AAAAATAAAT	2890 GAGGCTTTTT CTCCGAAAAA	2950 CGCGCCAAAC GCGCGGIYIYG

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3060	3120	3180	3240	3300	3360	3420	3480	3540	3600
ATTGGCAAGA	AGAATGACCA	ACCTGGTTCT	AGTAGAGAAC	GCCTTAAGAC	GGAGGCAGTT	ACAAGGATCA	TATAAACTTC	AAGTATAAGT	GCTCCCCTCC
TAACCGTTCT	TCTTACTGGT	TGGACCAAGA	TCATCTCTTG	CGGAATTCTG	CCTCCGTCAA	TG'FTCCTAGT	ATATTTGAAG	TTCATATTCA	CGAGGGGAGG
3050	3120	3170	3230	3290	3350	3410	3470	3530	3590
AAATATGGGG	GTACTTCCAA AGAATGACCA	GGGTAGGAAA	TATAGTTCTC	TTTGGATGAT	TTGGATAGTC	ACTCTTTGTG	TTTGGGGAAA	AAAAGGCATC	CAAGTTCTCT
TTTATACCCC	CATGAAGGTT TCTTACTGGT	CCCATCCTTT	ATATCAAGAG	AAACCTACTA	AACCTATCAG	TGAGAAACAC	AAACCCCTTT	TTTTCCGTAG	GTTCAAGAGA
3040	3090 3100	3160	3220	3280	3340	3390 3400	3460	3520	3580
CCGTGTCCCA	CCGCTCAGGA ACGAGTTCAA	TGGTGAT'FAT	ACAGAATTAA	TTGCCAAAAG	TAGACATGGT	AATCAACCAG GCCACCTTAG	CAGAAATTGA	TCCAGGAGGA	AAGATGCTTT
GGCACAGGGT	GGCGAGTCCT TGCTCAAGTT	ACCACTAATA	TGTCTTAATT	AACGGTTTTC	ATCTGTACCA	TTAGTTGGTC CGGTGGAATC	GTCTTTAACT	AGGTCCTCCT	TTCTACGAAA
3030	3090	3150	3210	3270	3330	3390	3450	3510	3570
TGCATCGTCG	CCGCTCAGGA	AAACAGAATC	CCTTTAAAGG	GCTCATTTTC	GCAAGTAAAG	AATCAACCAG	ACGTTTTTCC	CTCTCTGAGG	GACTAACAGG
ACGTAGCAGC	GGCGAGTCCT	TTTGTCTTAG	GGAAATTTCC	CGAGTAAAAG	CGTTCATTTC	'FTAGT'TGGTC	TGCAAAAAGG	GAGAGACTCC	CTGATTGTCC
3020	3080 3100	3140	3200	3260	3320	3380	3440	3500	3560
ACCATTGAAC	ACCCTGGCCT CCGCTCAGGA ACGAGTTCAA	AGTGGAAGGT	GAAGAATCGA	ACCACGAGGA	ACCGGAATTG	GGAAGCCATG	TGAAAGTGAC	CCCAGGCGTC	CGAGAAGAA
TGGTAACTTG	TGGGACCGGA GGCGAGTCCT TGCTCAAGTT	TCACCTTCCA	CYTCTTAGCT	TGGTGCTCCT	TGGCCTTAAC	CCTTCGGTAC	ACTTTCACTG	GGGTCCGCAG	GCTCTTCTTT
3010	3070	3130	3190	3250	3310	3370	3430	3490	3550
TCATGGTTCG	ACGGAGACCT	CAACCTC'I'I'C	CCATTCC'IGA	TCAAAGAACC	TTATTGAACA	CTGTTTACCA	TGCAGGAATT TGAAAGTGAC	TCCCAGAATA	TTGAAGTCTA
AGTACCAAGC	TGCCTCTGGA	GTTGGAGAAG	GGTAAGGACT	AGTTTCTTGG	AATAACTTGT	GACAAATGGT	ACGTCCTTAA ACTTTCACTG	AGGGTCTTAT	AACTTCAGAT

3660	3720	3780	3840	3900	3960	4020	4080	4140	4200
TCTTTGTGAA	TTTAAAGCTC	TAATTGTTTG	ATGCCTTTAA	CTACTGCTGA	AGGACTTTCC	TTGCTTGCTT	TGGAAAAATA	TTTTTCTTAC	GTACCTTTAG
AGAAACACTT	AAATTTCGAG	ATTAACAAAC	TACGGAAATT	GATGACGACT	TCCTGAAAGG	AACGAACGAA	ACCTTTTTAT	AAAAAGAATG	CATGGAAATC
3650	3710	3770	3830	3890	3950	4020	4070	4130	4190
GCTTTAGATC	CCTACAGAGA	CTACTGATTC	CAGTGGTGGA	GATGATGAGG	GAAGACCCCA	AATAGAACTC TTGCTTGCTT	AAGAAAATTA	AACATACTGT	CAAAAATTGT
CGAAATCTAG	GGATGTCTCT	GATGACTAAG	GTCACCACCT	CTACTACTCC	CTTCTGGGGT	TTATCTTGAG AACGAACGAA	TTCTTTTAAT	TTGTATGACA	GI'T'TTAACA
3640	3700	3760	3810 3820	3880	3940	4000	4060	4120	4180
ACTTTTGCTG	GGACAAACTA	ATGTGTTAAA	ATGGAACTGA TGAATGGGAG	GCCATCTAGT	GAGAAAGGTA	TGTGTTTAGT	ACTGCTATAC	TTATAATCAT	TAACTATGCT
TGAAAACGAC	CCTGTTTGAT	TACACAATTT	TACCTTGACT ACTTACCCTC	CGGTAGATCA	CTCTTTCCAT	ACACAAATCA	TGACGATATG	AATATTAGTA	ATTGATACGA
3630	3690	3750	3810	3870	3930	3990	4050	4110	4170
AGACCATGGG	TGACATAATT	TAAGTGTATA	ATGGAACTGA	CAGAAGAAAT	CAAAAAGAA	TGAGTCATGC	AAAAAGCTGC	GGCATAACAG	CTGCTATTAA
TCTGGTACCC	ACTGTATTAA	ATTCACATAT	TACCTTGACT	GTCTTCTTTA	GTTTTTTCTT	ACTCAGTACG	TYTTTCGACG	CCGTATTGTC	GACGATAATT
3620	3680	3710	3800	3860	3920	3980	4040	4100	4160
CATTTTTATA	TTCTGTGGTG	ATAAAATTTT	ATTCCAACCT	CTGTTTTGCT	TCTACTCCTC	CTAAGTTTTT	ACCACAAAGG	TTTATAAGTA	CATAGAGTGT
GTAAAAATAT	AAGACACCAC	TATTTTAAAA	TAAGGTTGGA	GACAAAACGA	AGATGAGGAG	GATTCAAAAA	TGGTGTTTCC	AAATATTCAT	GTATCTCACA
3610	3670	3730	3790	3850	3910	3970	4030	4090	4150
TAAAGCTATG	GGAACCTTAC	TAAGGTAAAT	TGTATTTTAG	TGAGGAAAAC	CTCTCAACAT	TTCAGAATTG	TGCTATTTAC	TTCTGTAACC	TCCACACAGG
ATTTCGATAC	CCTTGGAATG	ATTCCATTTA	ACATAAAATC	ACTCCTTTTG	GAGAGTTGTA	AAGTCTTAAC	ACGA'FAAATG	AAGACATTIGG	AGGTGTGTCC

4260	4320	4380	4440	4500	4560	4620	4680	4740	4800
TGACTAGAGA	CTCCCACACC	TYTYATYGCAG	GCATTTTTTT	GTCTGGATCG	CCCAACTTGT	ACAAATAAAG	TCTTATCATG	CTGTTTCCTG	ATAAAGTGTA
ACTGATCTCT	GAGGGTGTGG	AAAYRAACGTC	CGTAAAAAA	CAGACCTAGC	GGGTTGAACA	TGTTTATTTC	AGAATAGTAC	GACAAAGGAC	TAI'I'TCACAT
4250	4310	4370	4430	4490	4550	4610	4670	4730	4790
TATAGTGCCT	TTTAAAAAAC	TGTTAACTTG	CACAAATAAA	ATCTTATCAT	CTTCGCCCAC	CACAAATTTC	CATCAATGTA	ATGGTCATAG	AGCCGGAAGC
ATATCACGGA	AAATTTTTG	ACAATTGAAC	GTGTTTATTT	TAGAATAGTA	GAAGCGGGTG	GTGTTTAAAG	GTAGITACAT	TACCAGTATC	TCGGCCTTCG
4240	4300	4360	4420	4480	4540	4600	4660	4720	4780
ATATTTGATG	TTTTACTTGC	CAATTGTTGT	TCACAAATTT	TCATCAATGT	TGCTGGAGTT	GCAATAGCAT	TGTCCAAACT	TGGCGTAATC	ACAACATACG
TATAAACTAC	AAAATGAACG	GTTAACAACA	AGTGTTTAAA	AGTAGTTACA	ACGACCTCAA	CGTTATCGTA	ACAGGTTTGA	ACCGCATTAG	TGTTGTATGC
4230	4290	4350	4410	4470	4530	4590	4650 4660	4710	4770
TTAATAAGGA	TTTGTAGAGG	AAAATGAATG	AGCAATAGCA	TTGTCCAAAC	GGGGATCTCA	TACAAATAAA	AGT'TGTGGTT TGTCCAAACT	AGCTAGAGCT	ACAATTCCAC
AATTATTCCT	AAACATCTCC	TTTTACTTAC	TCGTTATCGT	AACAGGTTTG	CCCCTAGAGT	ATGTTTATTT	TCAACACCAA ACAGGTT'TGA	TCGATCTCGA	TGTTAAGGTG
4220	4280	4340	4400	4460	4520	4580	4640	4700	4760
TGTAAAGGGG	CCATACCACA	CCTGAAACAT	TTACAAATAA	TAGTTGTGGT	CCTCCAGCGC	TTATAATGGT	ACTGCATTCT	GTCGACCTCT	TTATCCGCTC
ACATTTCCCC	GGTATGGTGT	GGACTTTGTA	AATGTTTATT	ATCAACACCA	GGAGGTCGCG	AATATTACCA	TGACGTAAGA	CAGCTGGAGA	AATAGGCGAG
4210	4270	4330	4390	4450	4510	4570	4630	4690	4750
CTTTTTYAATT	TCATAATCAG	TCCCCCTGAA	CTTATAATGG	CACTGCATTC	GCTGGATGAT	TTATTGCAGC	CATTTTTTC	TCTGTATACC	TGTGAAATTG
GAAAAATTAA	AGTATTAGTC	AGGGGGACTT	GAATATTACC	GTGACGTAAG	CGACCTACTA	AATAACGTCG	GTÄAAAAAAG	AGACATATGG	ACACTTFAAC

4860	4920	4980	5040	5100	5160	5220	5280	5340	5400
TCACTGCCCG	CGCGCGGGGA	CTGCGCTCGG	TTATCCACAG	GCCAGGAACC	GAGCATCACA	TACCAGGCGT	ACCGGATACC	TGTAGGTATC	CCCGTTCAGC
AGTGACGGGC	GCGCGCCCT	GACGCGAGCC	AATAGGTGTC	CGGTCCTTGG	CTCGTAGTGT	ATGGTCCGCA	TGGCCTATGG	ACATCCATAG	GGGCAAGTCG
4850	4910	4960 4970	5030	5090	5150	5210	5270	5330	5390
TGCGTTGCGC	AATCGGCCAA	CTTCCTCGCT CACTGACTCG	GGTAATACGG	CCAGCAAAAG	CCCCCTGAC	ACTATAAAGA	CCTGCCGCTT	ATGCTCACGC	GCACGAACCC
ACGCAACGCG	TTAGCCGGTT	GAAGGAGCGA GTGACTGAGC	CCATTATGCC	GGTCGTTTTC	GGGGGGACTG	TGATATTTCT	GGACGCGGAA	TACGAGTGCG	CGTGCTTGGG
4840	4900	4960	5020	5080	5140	5200	5260	5320	5380
TCACATTAAT	TGCATTAATG	CTTCCTCGCT	ACTCAAAGGC	GAGCAAAAGG	ATAGGCTCCG	ACCCGACAGG	CTGTTCCGAC	CGCTTTCTCA	TGGGCTGTGT
AGTGTAATTA	ACGTAATTAC	GAAGGAGCGA	TGAGTTTCCG	CTCGTTTTCC	TATCCGAGGC	TGGGCTGTCC	GACAAGGCTG	GCGAAAGAGT	ACCCGACACA
4830 GTGAGCTAAC CACTCGATTG	4890 TCGTGCCAGC AGCACGGTCG	4950 CGCTCTTCCG GCGAGAAGGC	5010 GTATCAGCTC CATAGTCGAG	5070 AAGAACATGT TTCTTGTACA	5130 GCGTTTTTCC CGCAAAAAGG	5190 AGGTGGCGAA TCCACCGCTT	5250 GTGCGCTCTC CACGCGAGAG	5310 GGAAGCGTGG CCTTCGCACC	CGCTCCAAGC TGGGCTGTGT GCGAGGTTCG ACCCGACACA
4820	4880	4940	5000	5060	5120	5180	5240	5300	5360
TGCCTAATGA	GGGAAACCTG	GCGTATTGGG	GCGGCGAGCG	TAACGCAGGA	CGCGTTGCTG	CTCAAGTCAG	AAGCTCCCTC	TCTCCCTTCG	GTAGGTCGTT
ACGGATTACT	CCCTTTGGAC	CGCATAACCC	CGCCGCTCGC	ATTGCGTCCT	GCGCAACGAC	GAGTTCAGTC	TTCGAGGGAG	AGAGGGAAGC	CATCCAGCAA
4810	4870	4930	4990	5050	5110	5170	5230 5240	5290	5350
AAGCCTGGGG	CTTTCCAGTC	GAGGCGGTTT	TCGTTCGGCT	AATCAGGGGA	GTAAAAAGC	AAAATCGACG	TTCCCCCTGG AAGCTCCCTC	TGTCCGCCTT	TCAGTTCGGT
TTCGGACCCC	GAAAGGTCAG	CTCCGCCAAA	AGCAAGCCGA	TTAGTCCCCT	CATTTTTCCG	TTTTAGCTGC	AAGGGGGACC TTCGAGGGAG	ACAGGCGGAA	AGTCAAGCCA

5460	5520	5580	5640	5700	5760	5820	5880	5940	6000
AGACACGACT	GTAGGCGGTG	GTATTTGGTA	TGATCCGGCA	ACGCGCAGAA	CAGTGGAACG	ACCTAGAȚCC	ACTTGGTCTG	TTTCGTTCAT	TTACCATCTG
TCTGTGCTGA	CATCCGCCAC	CATAAACCAT	ACTAGGCCGT	TGCGCGTCTT	GTCACCTTGC	TGGATCTAGG	TGAACCAGAC	AAAGCAAGTA	AATGGTAGAC
5450	5510	5570	5630	5690	5750	5810	5870	5930	5990
CAACCCGGTA	AGCGAGGTAT	TAGAAGGACA	TGGTAGCTCT	GCAGCAGATT	GTCTGACGCT	AAGGATCTTC	ATATGAGTAA	GATCTGTCTA	ACGGGAGGC
GTTGGCCCAT	TCGCTCCATA	ATCTTCCTGT	ACCATCGAGA	CGTCGTCTAA	CAGACTGCGA	TTCCTAGAAG	TATACTCATT	CTAGACAGAT	TGCCCTCCCG
5440	5490 5500	5550 5560	5620	5680	5740	5800	5860	5920	5980
GTCTTGAGTC	ACTGGTAACA GGATTAGCAG	TGGCCTAACT ACGGCTACAC	GAAAAAGAGT	TTGTTTGCAA	TTTCTACGGG	GATTATCAAA	TCTAAAGTAT	CTATCTCAGC	TAACTACGAT
CAGAACTCAG	TGACCATTGT CCTAATCGTC	ACCGGATTGA TGCCGATGTG	CTTTTTCTCA	AACAAACGTT	AAAGATGCCC	CTAATAGTTT	AGATTTCATA	GATAGAGTCG	ATTGATGCTA
5430	5490	5550	5610	5670	5730	5790	5850	5910	5970
GGTAACTATC	ACTGGTAACA	TGGCCTAACT	GTTACCTTCG	GGTGGTTTTT	CCTTTGATCT	TTGGTCATGA	TTTAAATCAA	AGTGAGGCAC	GTCGTGTAGA
CCATTGATAG	TGACCATTGT	ACCGGATTGA	CAATGGAAGC	CCACCAAAAA	GGAAACTAGA	AACCAGTACT	AAATTTAGTT	TCACTCCGTG	CAGCACATCT
5420	5480	5540	5600	5660	5720	5780	5840	5900	5960
CGCCTTATCC	GGCAGCAGCC	CTTGAAGTGG	GCTGAAGCCA	CGCTGGTAGC	TCAAGAAGAT	TTAAGGGATT	AAAATGAAGT	ATGCTTAATC	CTGACTCCCC
GCGGAATAGG	CCGTCGTCGG	GAACTTCACC	CGACTTCGGT	GCGACCATCG	AGTTCTTCTA	AATTCCCTAA	TTTTACTTCA	TACGAATTAG	GACTGAGGGG
5410	5470	5530	5590 TCTGCGCTCT AGACGCGAGA	5650	5710	5770	5830	5890	5950
CCGACCGCTG	TATCGCCACT	CTACAGAGTT		AACAAACCAC	AAAAAGGATC	AAAACTCACG	TTYTAAATTA	ACAGTTACCA	CCATAGTTGC
GGCTGGCGAC	ATAGCGGTGA	GATGTCTCAA		TTGTTTGGTG	T'F'T'I'CCTAG	TTTTGAGTGC	AAAATTTAAT	TGTCAATGGT	GGTATCAACG

FIGURE 19K (SEQ ID NO. 23)

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6060	6120	6180	6240	6300	6360	6420	6480	6540	6600
TTATCAGCAA	TCCGCCTCCA	AATAGTTTGC	GGTATGGCTT	TTGTGCAAAA	GCAGTGTTAT	GTAAGATGCT	CGGCGACCGA	ACTTTAAAAG	CCGCTGTTGA
AATAGTCGTT	AGGCGGAGGT	TTATCAAACG	CCATACCGAA	AACACGTTTT	CGTCACAATA	CATTCTACGA	GCCGCTGGCT	TGAAATTTTC	GGCGACAACT
6050	6110	6170	6230	6290	6350	6410	6470	6530	6590
GGCTCCAGAT	TGCAACTTTA	TTCGCCAGTT	CTCGTCGTTT	ATCCCCCATG	TAAGTTGGCC	CATGCCATCC	ATAGTGTATG	ACATAGCAGA	AAGGATCTTA
CCGAGGTCTA	ACGTTGAAAT	AAGCGGTCAA	GAGCAGCAAA	TAGGGGGTAC	ATTCAACCGG	G'PACGGTAGG	TATCACATAC	TGTATCGTCT	TTCCTAGAAT
6040	6100	6160	6220	6280	6340	6400	6460	6520	6580
CACGCTCACC	GAAGTGGTCC	GAGTAAGTAG	TGGTGTCACG	GAGTTACATG	TTGTCAGAAG	CTCTTACTGT	CATTCTGAGA	ATACCGCGCC	GAAAACTCTC
GTGCGAGTGG	CTTCACCAGG	CTCATTCATC	ACCACAGTGC	CTCAATGTAC	AACAGTCTTC	GAGAATGACA	GTAAGACTCT	TATGGCGCGG	CTTTTGAGAG
6030	6090	6150	6210	6270	6330	6390	6450	6510	6570 6580
CCGCGAGACC	GCCGAGCGCA	CGGGAAGCTA	ACAGGCATCG	CGATCAAGGC	CCTCCGATCG	CTGCATAATT	TCAACCAAGT	ATACGGGATA	TCTTCGGGGC GAAAACTCTC
GGCGCTCTGG	CGGCTCGCGT	GCCCTTCGAT	TGTCCGTAGC	GCTAGTTCCG	GGAGGCTAGC	GACGTATTAA	AGTTGGTTCA	TATGCCCTAT	AGAAGCCCCG CTTTTGAGAG
6020	6080	6140	6200	6260	6320	6380	6440	6500	6560
TGCAATGATA	AGCCGGAAGG	TAATTGTTGC	TGCCATTGCT	CGGTTCCCAA	CTCCTTCGGT	TATGGCAGCA	TGGTGAGTAC	CCCGGCGTCA	TGGAAAACGT
ACGTTACTAT	TCGGCCTTCC	ATTAACAACG	ACGGTAACGA	GCCAAGGGTT	GAGGAAGCCA	ATACCGTCGT	ACCACTCATG	GGGCCGCAGT	ACCTTT'RGCA
6010	6070	6130	6190	6250	6310	6370	6430	6490	6550
GCCCCAGTGC	TAAACCAGCC	TCCAGTCTAT	GCAACGTTGT	CATTCAGCTC	AAGCGGTTAG	CACTCATGGT	TTTCTGTGAC	GTTGCTCTTG	TGCTCATCAT
CGGGGTCACG	ATTTGGTCGG	AGGTCAGATA	CGTTGCAACA	GTAAGTCGAG	TTCGCCAATC	GTGAGTACCA	AAAGACACTG	CAACGAGAAC	ACGAGTACTA

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6660	6720	6780	6840	6900	6960	7020	7080	7140	7200
TTTACTTTCA	GGAATAAGGG	AGCATTTATC	AAACAAATAG	GGAGATCTGC	TTAATTTTAT	GGTCGACTCT	CTTGTGTGTT	GCTTGACCGA	ATGTACGGGC
AAATGAAAGT	CCTTATTCCC	TCGTAAATAG	TTTGTTTATC	CCTCTAGACG	AATTAAAATA	CCAGCTGAGA	GAACACACAA	CGAACTGGCT	TACATGCCCG
6650	6710	6770	6830	6890	6950	7010	7070	7130	7190
TTCAGCATCT	CGCAAAAAG	ATATTATTGA	TTAGAAAAAT	CGACGGATCG	ACCTTTTTT	GATCCCCTAT	CTGCTCCCTG	ACAAGGCAAG	CTGCTTCGCG
AAGTCGTAGA	GCGTTTTTTC	TATAATAACT	AATCTTTTTA	GCTGCCTAGC	TGGAAAAAA	CTAGGGGATA	GACGAGGGAC	TGTTCCGTTC	GACGAAGCGC
6640	6700	6760	6820	6880	6940	7000	7060	7120	7180
CCAACTGATC	GGCAAAATGC	TCCTTTTTCA	TTGAATGTAT	CACCTGACGT	AGCCAGAGTA	CCGATCTCCC	AAGCCAGTAT	TTAAGCTACA	GCGTTTTGCG
GGTTGACTAG	CCGTTTTACG	AGGAAAAGT	AACTTACATA	GTGGACTGCA	TCGGTCTCAT	GGCTAGAGGG	TTCGGTCATA	AATTCGATGT	CGCAAAACGC
6630	6690	6750	6810	6870	6930	6990	7050	7110	7170
ACTCGTGCAC	AAAACAGGAA	CTCATACTCT	GGATACATAT	CGAAAAGTGC	GGCTTCGAAT	GAGTTTGGCG	CCGCATAGTT	CGAGCAAAAT	TTAGGGTTAG
TGAGCACGTG	TTTTGTCCTT	GAGTATGAGA	CCTATGTATA	GCTTTTTCACG	CCGAAGCTTA	CTCAAACCGC	GGCGTATCAA	GCTCGTTTTA	AATCCCAATC
6620	6680	6740	6800	6860	6920	6980	7040	7100	7160
GATGTAACCC	TGGGTGAGCA	ATGTTGAATA	TCTCATGAGC	CACATTTCCC	GAGGCGCGCC	TTTTGAGATG	TGCTCTGATG	GAGTAGTGCG	AAGAATCTGC
CTACATTGGG	ACCCACTCGT	TACAACTTAT	AGAGTACTCG	GTGTAAAGGG	CTCCGCGCGG	AAAACTCTAC	ACGAGACTAC	CTCATCACGC	TYCTTAGACG
6610	6670	6730	6790	6850	6910	6970	7030	7090	7150
GATCCAGTTC	CCAGCGTTTC	CGACACGGAA	AGGGTTATTG	GGGTTCCGCG	TAGGTGACCT	TTTATTTAT	CAGTACAATC	GGAGGTCGCT	CAATTGCATG
CTAGGTCAAG	GGTCGCAAAG	GCTGTGCCTT	TCCCAATAAC	CCCAAGGCGC	ATCCACTGGA	AAATAAAATA	GTCATGTTAG	CCTCCAGCGA	GTTAACGTAC

(SEQ ID NO. 23)

7260	7320	7380	7440	7500	7560	7620	7680	7740	7800
TTACGGGGTC	ATGGCCCGCC	TTCCCATAGT	AAACTGCCCA	TCAATGACGG	CTACTTGGCA	AGTACATCAA	TTGACGTCAA	ACAACTCCGC	GCAGAGCTCT
AATGCCCCAG	TACCGGGCGG	AAGGGTATCA	TTTGACGGGT	AGTTACTGCC	GATGAACCGT	TCATGTAGTT	AACTGCAGTT	TGTTGAGGCG	CGTCTCGAGA
7250	7310	7370	7430	7490	7550	7610	7670	7730	7790
TAGTAATCAA	CTTACGGTAA	ATGACGTATG	TATTTACGGT	CCTATTGACG	TGGGACTTTC	CGGTTTTGGC	CTCCACCCCA	AAATGTCGTA	GTCTATATAA
A1CATTAGTT	GAATGCCATT	TACTGCATAC	ATAAATGCCA	GGATAACTGC	ACCCTGAAAG	GCCAAAACCG	GAGGTGGGGT	TTTACAGCAT	CAGATATAT
7240	7300	7360	7420	7480	7540	7600	7660	7720	7780
TAGTTATTAA	CGTTACATAA	GACGTCAATA	ATGGGTGGAC	AAGTACGCCC	CATGACCTTA	CATGGTGATG	ATTTCCAAGT	GGACTTTCCA	ACGGTGGGAG
ATCAATAATT	GCAATGTATT	CTGCAGTTAT	TACCCACCTG	TTCATGCGGG	GTACTGGAAT	GTACCACTAC	TAAAGGTTCA	CCTGAAAGGT	TGCCACCCTC
7230	7290	7350	7410	7470	7530	7590	7650	7710	7770
GATTATTGAC	TGGAGTTCCG	CCCGCCCAFT	ATTGACGTCA	ATCATATGCC	ATGCCCAGTA	TCGCTATTAC	ACTCACGGGG	AAAATCAACG	GTAGGCGTGT
CTAATAACTG	ACCTCAAGGC	GGGCGGGTAA	TAACTGCAGT	TAGTATACGG	TACGGGTCAT	AGCGATAATG	TGAGTGCCCC	TTTTAGTTGC	CATCCGCACA
7220	7280	7340	7400	7460	7520	7580	7640	7700	7760
CGTTGACATT	AGCCCATATA	CCCAACGACC	GGGACTTTCC	CATCAAGTGT	GCCTGGCATT	GTATTAGTCA	TAGCGGTTTG	TTTTGGCACC	CAAATGGGCG
GCAACTGTAA	TCGGGTATAT	GGGTTGCTGG	CCCTGAAAGG	GTAGTTCACA	CGGACCGTAA	CATAATCAGT	ATCGCCAAAC	AAAACCGTGG	CTTYPACCCGC
7210	7270	7330	7390	7450	7510	7570	7630	7690	7750
CAGATATACG	ATTAGTTCAT	TGGCTGACCG	AACGCCAATA	CTTGGCAGTA	TAAATGGCCC	GTACATCTAC	TGGGCGTGGA	TGGGAGTTTG	CCCATTGACG
GTCTATATGC	TAATCAAGTA	ACCGAC'FGGC	TTGCGGTTAT	GAACCGTCAT	ATTTACCGGG	CATGTAGATG	ACCCGCACC'F	ACCCTCAAAC	GGGTAACTGC

FIGURE 19N

(SEQ ID NO. 23)

pD17-hG1b

7810 7850 7860 CTGGCTTACTG GCTTATCGAA ATTAATACGA CTCACTATAG GACCGATTGA TCTCTTGGGT GACGAATGAC CGAATAGCTT TAATTATGCT GAGTGATATC

7880

7870 GGAGACCCAA GCTT

CCTCTGGGTT CGAA

Figure 26

hBR96-2 Heavy Chain Variable Region (VH)

human IgGI constant

YFPEPVTVSW NSGALTSGVH TFPAVLQSSG LYSLSSVVTV PSSSLGTQTY
ICNVNHKPSN TKVDKKVEPK SCDKTHTCPP CHAPELLOGP SVFLFPPKPK
DTLMISRTPE VTCVVVDVSH EDPEVKFNWY VDGVEVHNAK TKPREEQYNS
318 320 321
TYRVVSVLTV LHQDWLNGKE YKOKVSNKAL PAPLEKTISK AKGOPREPQV
YTLPPSRDEL TKNQVSLTCL VKGFYPSDIA VEWESNGQPE NNYKTTPPVL
DSDGSFFLYS KLTVDKSRWQ QGNVF3CSVM HEALHNHYTQ KSLSLSPGK
(SEQ ID NO. 25)

Figure 27

hBR96-2A: Heavy Chain Variable Region (VH)

EVQLVESGGG LVQPGGSLRL SCAASGFPFS DYYMYWVRQA PGKGLEWVSY

51 61 71 81 91
ISQDGDITDY ADSVKGRFTI SRDNAKNSLY LQMNSLRDED TAVYYCARGL

101 111
TADGAWFAYWG QGTLVTVSS (SEQ ID NO. 24)

hBR96-2A: Human Heavy Chain IgG1 Constant Region ACH2

A STKGPSVFPL APSSKSTSGC TAALGCLVKD YFPEPVTVSW NSGALTSGVH

TFPAVLQSSG LYSLSSVVTV PSSSLGTQTY ICNVNHKPSN TKVDKKVEPK

SCDKTHTCPP CP GQPREPQV YTLPPSRDEL TKNQVSLTCL VKGFYPSDIA

VEWESNGQPE NNYKTTPPVL DSDGSFFLYS KLTVDKSRWQ QGNVFSCSVM

HEALHNHYTQ KSLSLSPGK (SEQ ID NO. 26)

Figure 28

This sequence is the chi BR96 IgGi with CH2 deleted.

1	VH EVNLVESGGG	LVQPGGSLKV	SCVTSGFTFS	DYYMYWVRQT	PEKRLEWVAY
51	ISQGGDITDY	PDTVKGRFTI	SRDNAKNTLY	LOMSRLKSED	TAMYYCARGL
	DDGAWFAYWG				
151	YPPEPVTVSW	NSGALTSGVH	TFPAVLQSSG	LYSLSSVVTV	PSSSLGTQTY
201	ICNVNHKPSN	TKVDKKVEPK	SCDKTHTCPP	CHGOPREPQV	YTLPPSRDEL
251	TKNQVSLTCL	VKGFYPSDIA	VEWESNGOPE	NNYKTTPPVL	DSDGSFFLYS
	KLTVDKSRWO				

(SEQ ID NO. 27)